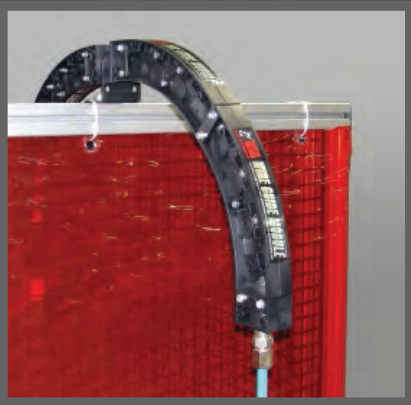
WIRE WIZARD®

WELDING PRODUCTS

IF IT TOUCHES THE WIRE, THE WIZARD HAS A SOLUTION!



ELCO ENTERPRISES, INC.

www.wire-wizard.com

Dear Welding Associate:

Wire Wizard® is recognized as the industry leader in weld wire dispensing & weld cell support equipment. Since we began in 1985, we've prided ourselves on both quality and innovation. It's through anticipation of customer needs and ongoing dialogue with end users that we have created several distinct product lines. In this catalog you will find:

Wire Wizard®— our world famous line of wire dispensing products

PowerBall™ & E-Power™ Consumables— high performance torch consumables

Torch Wizard®— robotic and semi-automatic torch reaming stations and accessories

Wire Pilot®— weld wire feed assist products

Wizard Shield™— Blue Magic® and Blue Chill® anti-spatters and dispensing equipment

Our extensive distributor network ensures that end-users have quick access to experts trained to support Wire Wizard® Welding Products and other ELCo product lines. Our area product representatives are an extension of our commitment to service at the end-user level. Yet another example of ELCo's commitment to service is specialized training and product information available online through our website.

We want to be your #1 weld-wire dispensing & torch consumables supplier; our team is committed to maximizing value for you through the finest quality products shipped in a timely manner at a competitive price. New products are always on the drawing board at ELCo. To stay abreast of the latest news and information, please visit and bookmark our website www.wire-wizard.com. Remember— even though our website name highlights the Wire Wizard®, we have other Wizards on our team and will be looking for new ones to add to the roster.

Sincerely,

Ed Cooper
President
ELCo Enterprises, Inc.

Sustaining Member

An Association of Welding Manufacturers

GASES AND WELDING DISTRIBUTORS ASSOCIATION

NATIONAL VETERAN-OWNED BUSINESS ASSOCIATION

ISO 9001:2008
CERTIFIED

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FIBER DRUM HOODS AND ACCESSORIES

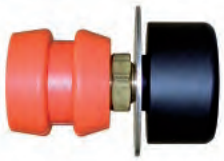
- Hood covers designed for 20", 20.4", 23.4", and 26" drums (508, 518, 594 & 660mm)
- Constructed of tough polyethylene for long shop life
- Dual windows provide easy access and viewing
- Flange with tabs securely anchors hood to package
- Orbital Arm or Direct Pull Kit guarantee smooth wire feeding
- **Lifetime guarantee against breakage**

FLANGED HOODS FIT BOTH CHIMED DRUMS & ENVIRONMENTAL PACKS
(EXCEPT FOR LARGE 26" DRUMS)

WWIC-11
REUSABLE DRUM CORE
for all coreless drums.
Prevents wire flip.

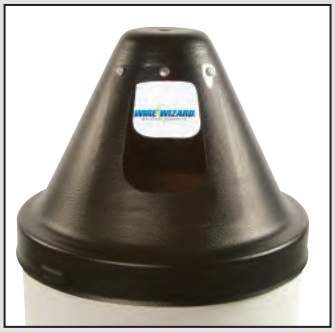
DIRECT PULL KIT Model WWDP

- Quick disconnect with polished ceramic inlet prevents wire shaving
- Fits all cone and wire sizes
- **Lifetime guarantee not to wear out**



WWDP SIDE

CERAMIC INLET

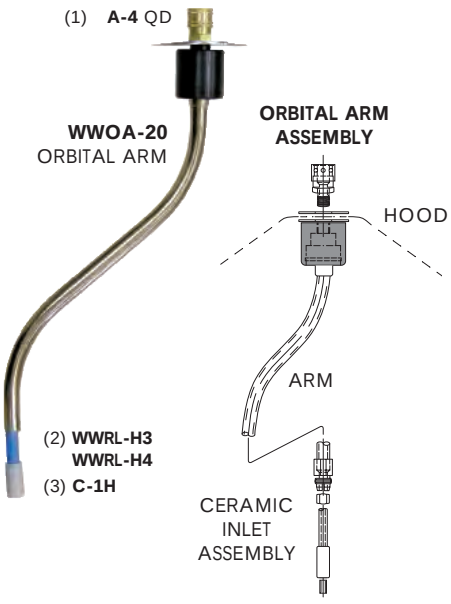


ROUND DRUM HOOD

OCTAGON DRUM HOOD

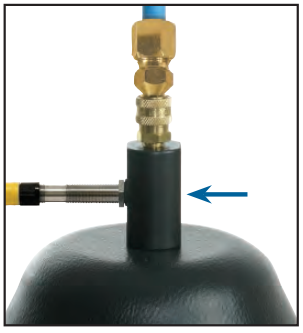
LOW PROFILE OCTAGON HOOD

SQUARE DRUM HOOD



ORBITAL ARM KITS *For tangle-free wire dispensing*

- Prevents wire from tangling inside the drum
- Arms available for all wire sizes up to 3/32" (2.4mm)
- Polished ceramic inlet guide will not shave wire
- Compatible with all Wire Wizard® Drum Hoods



WIRE PRESENCE SENSOR BLOCK & PROXIMITY SWITCH

Model WWSB-M12 / WWA5-E34 (OR -E35)

- Detects & signals when wire drum is empty
- Proximity switch may be connected to PLC to stop welding cycle when wire is depleted
- Uses 12 mm proximity switch (WWA5-E34), other switches available upon request
- Compatible with all Wire Wizard® Drum Hoods

ROUND DRUM HOODS *20"-23" (508-584MM) HOODS FIT BOTH CHIMED DRUMS & ENVIRONMENTAL PACKS*

DESCRIPTION	PART NO.
20.4" (518mm) Round Hood Only	WW10204F
20.4" (518mm) Round Hood w/Direct Pull Kit	WW10204F-DP
23" (584mm) Round Hood Only	WW10231F
23" (584mm) Round Hood w/Direct Pull Kit	WW10231F-DP
26" (660mm) Round Hood Only	WW10260F
26" (660mm) Round Hood w/Direct Pull Kit	WW10260F-DP
26" (660mm) Round Hood, for chimed drums only	WW10260C-2
26" (660mm) Round Hood w/Direct Pull Kit, for chimed drums only	WW10260DP-2

OCTAGON DRUM HOODS

20.5" (521mm) Octagon Hood (500 LB / 227 KG)	WWOC-20.5
20.5" (521mm) Octagon Hood w/Dir. Pull Kit	WWOC20.5-DP
23.5" (597mm) Octagon Hood (900 LB / 408 KG)	WWOC-23.5
23.5" (597mm) Octagon Hood w/Dir. Pull Kit	WWOC23.5-DP
23.5" (597mm) Low Profile Hood (900 LB / 408 KG)	WWOC
23.5" (597mm) Low Profile Hood w/Dir. Pull Kit	WWOC-DP

SQUARE DRUM HOODS

21" (533mm) Square Hood (500 LB / 227 KG)	WWSC-21
21" (533mm) Square Hood w/Direct Pull Kit	WWSC21-DP
24" (610mm) Square Hood (1000 LB / 453 KG)	WWSC-24
24" (610mm) Square Hood w/Direct Pull Kit	WWSC24-DP
29" (737mm) Square Hood (990 LB / 449 KG)	WWSC-29

DODECAGON HOODS & ACCESSORIES

For 100 lb (45.4 kg) & 300 lb (136 kg) aluminum wire packages

DESCRIPTION	PART NO.
23.5" (597mm) Dodecagon Hood	WWDO-23.5
Connector for EC-4 Conduit	A-12A

ADDITIONAL EQUIPMENT

DESCRIPTION	PART NO.
Direct Pull Kit	WWDP
Sensor Block (12mm)	WWSB-M12
Proximity Switch (NPN)	WWA5-E34
Proximity Switch (PNP)	WWA5-E35
Reusable Drum Core	WWIC-11
Conduit Connection Insulator	WWDI

ORBITAL ARM KITS (with Quick Disconnect)

COMPATIBLE DRUM COVERS & WIRE	PART NO.
20" (508mm) to 23.4" (594mm) Cover for up to .062 (1.6mm) Wire	WWOA-20
20" (508mm) to 23.4" (594mm) Cover for .062–3/32 (1.6-2.4mm) Wire	WWOA-20H
20" (508mm) to 23.4" (594mm) Cover for .062–3/32 (1.6-2.4mm) Alum.	WWOA-20A
26" Drum Cover for Wire Diameter up to .045	WWOA-26

AVAILABLE ORBITAL ARM REPLACEMENT PARTS

(1)	Quick Disconnect (QD)	A-4
(2)	Replacement Liner for WWOA-20 and WWOA-26	WWRL-H3
	Replacement Liner with Inlet Guide for WWOA-20H	WWRL-H4
(3)	Inlet Guide with Ceramic Insert	C-1H

DRUM MANUFACTURER CROSS-REFERENCE CHART FOR HOODS*

WIRE MANUFACTURER	PACKAGING	DRUM DIA
AIR LIQUIDE®	500 LB (227 KG)	20.4" (518mm)
	900 LB (408 KG)	23.4" (594mm)
ALCO TEC WIRE®	311 LB (141 KG)	WWOC
ARCOS ALLOYS®	250 LB (113 KG)	20.4" (518mm)
	500 LB (227 KG)	20.4" (518mm)
AVESTA®	250 LB (113 KG)	20.4" (518mm)
	550 LB (250 KG)	20.4" (518mm)
	600 LB (272 KG)	20.4" (518mm)
	750 LB (340 KG)	26.0" (660mm)
BÖHLER®	550 LB (250 KG)	20.4" (518mm)
EAGLE®	500 LB (227 KG)	20.4" (518mm)
ESAB®	500 LB (227 KG)	20.4" (518mm)
	550 LB (250 KG)	20.4" (518mm)
	900 LB (408 KG)	23.4" (594mm)
	Octagon 500 LB (227 KG)	20.5" (521mm)
	Octagon 600 LB (272 KG)	20.5" (521mm)
	Octagon 900 LB (408 KG)	23.5" (597mm)
GEDIK® (GeKa®)	110 LB (50 KG)	20.4" (518mm)
	485 LB (220 KG)	20.4" (518mm)
	550 LB (250 KG)	23.4" (594mm)
GRYTGOLS BRUK®	500 LB (227 KG)	20.4" (518mm)
	1000 LB (453 KG)	26.0" (660mm)
HARRIS WELCO®	500 LB (227 KG)	20.4" (518mm)
HYUNDAI®	less than 600 LB (272 KG)	20.4" (518mm)
	600 LB (272 KG)+	26.0" (660mm)
HOBART®	250 LB (113 KG)	23.4" (594mm)
	400 LB (181 KG)	20.4" (518mm)
	Tubular 500 LB (227 KG)	23.4" (594mm)
	Solid 600 LB (272 KG)	20.4" (518mm)
	Tubular 600 LB (272 KG)	23.4" (594mm)
	Tubular 700 LB (318 KG)	23.4" (594mm)
	Solid 950 LB (431 KG)	23.4" (594mm)
	Dodecagon 300 LB (136 KG)	23.4" (594mm)
	Dodecagon 100 LB (45.4 KG)	23.4" (594mm)
INE	440 LB (200 KG)	20.4" (518mm)
	550 LB (250 KG)	20.4" (518mm)
	1325 LB (600 KG)	26.0" (660mm)
ISAF	661 LB (300 KG)	20.4" (518mm)
KAYNAK®	550 LB (250 KG)	20.4" (518mm)
KOBELCO®	440 LB (200 KG)	20.4" (518mm)
	550 LB (250 KG)	20.4" (518mm)

WIRE MANUFACTURER	PACKAGING	DRUM DIA
LINCOLN ELECTRIC®	500 LB (227 KG)	20.4" (518mm)
	600 LB (272 KG)	23.4" (594mm)
	900 LB (408 KG)	23.4" (594mm)
	1000 LB (453 KG)	23.4" (594mm)
	Square 275 LB (125 KG)	24.0" (610mm)
	Square 500 LB (227 KG)	21.0" (533mm)
	Square 900 LB (408 KG)	24.0" (610mm)
	Square 1000 LB (453 KG)	24.0" (610mm)
	Square 2000 LB (907 KG)	29.0" (737mm)
McKAY®	less than 600 LB (272 KG)	20.4" (518mm)
	600 LB (272 KG)	23.4" (594mm)
	750 LB (340 KG)	23.4" (594mm)
NATIONAL STANDARD®	400 LB (181 KG)	20.4" (518mm)
	500 LB (227 KG)	20.4" (518mm)
	900 LB (408 KG)	23.4" (594mm)
	500 LB (227 KG)	20.4" (518mm)
	900 LB (408 KG)	23.4" (594mm)
NOVAFIL®	550 LB (250 KG)	20.4" (518mm)
PARAMOUNT®	500 LB (227 KG)	20.4" (518mm)
	1000 LB (453 KG)	26.0" (660mm)
PITTARC® (PITTINI)	250 KG (550 LB)	20.4" (518mm)
	350-450 KG (772-992 LB)	23.4" (594mm)
	600-700 KG (1323-1543 LB)	26.0" (660mm)
POLYMET®	Round Drums	23.4" (594mm)
PRAXAIR® (PROSTAR®)	Square 275 LB (125 KG)	21.0" (533mm)
	Square 550 LB (250 KG)	21.0" (533mm)
SANDVIK®	600 LB (272 KG)	20.4" (518mm)
SELECT-ARC®	250 LB (113 KG)	20.4" (518mm)
for 5/64" / 2mm or larger diameter wire use 23.4" (594mm) drum hoods	400 LB (181 KG)	20.4" (518mm)
	500 LB (227 KG)	20.4" (518mm)
	600 LB (272 KG)	23.4" (594mm)
THERMAL ARC®	500 LB (227 KG)	20.4" (518mm)
	830 LB (376 KG)	23.4" (594mm)
TRI-MARK®	400 LB (181 KG)	20.4" (518mm)
	500 LB (227 KG)	20.4" (518mm)
	600 LB (272 KG)	23.4" (594mm)
WASHINGTON ALLOYS®	500 LB (227 KG)	20.4" (518mm)
WELDMARK®	500 LB (227 KG)	20.4" (518mm)
	1000 LB (453 KG)	26.0" (660mm)
WISCONSIN WIRE WORKS®	250 LB (113 KG)	20.4" (518mm)
	500 LB (227 KG)	20.4" (518mm)

** Drum sizes have been supplied by the manufacturer or their distributors who, at their discretion, reserve the right to change product standards without notice. To the best of ELCo's knowledge, information presented is accurate and current.*

All packaging is round unless otherwise noted.

DRUM DOLLIES *(1200 LB/544KG capacity) See all dollies & carts on pages 40-41*

Setup for smaller drums

Setup for larger drums

FDD-MD Universal Drum Dolly (reversible design)
For round, square or octagon drums up to 25" (635mm)

FDD-26-12
Heavy Duty Dolly for 26" (660mm) Round Drums

WWSD Skid Dolly
(27.5"/698.5mm square)

FIRE RESISTANT FIBER DRUM AND BOX COVERS

FOR 20.4" to 24" ROUND, SQUARE OR OCTAGON BULK PACKAGES

Wire Wizard® durable fire resistant covers provide effective protection for fiber or cardboard packaging located near the weld cell. Available for round, square or octagon bulk wire packages.

- Constructed of tough fire resistant material
- Simple slip-on/slip-off design
- OSHA & NFPA (USA) codes require fire protection for any combustible wire packaging within 35 ft (10.7m) of the arc
- Covers meet NFPA Code 51b, "Standard for Fire Prevention During Welding, Cutting and Other Hot Work"

From OSHA.GOV website:

Standard Number: 1910.252(a)(2)(vii)

Relocation of combustibles. Where practicable, all combustibles shall be relocated at least 35 feet (10.7 m) from the work site. Where relocation is impracticable, **combustibles shall be protected with flameproofed covers** or otherwise shielded with metal or asbestos guards or curtains.

For details on NFPA Standards, see NFPA Code 51b documentation, available through www.nfpa.org

FIRE RESISTANT DRUM COVERS

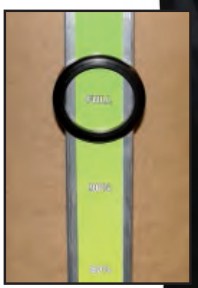
DESCRIPTION	PART NO.
Fire Resistant Drum Cover - Round 20.4" (518.2mm)	WWDC-20.4-R
Fire Resistant Drum Cover - Round 23.4" (594.4mm)	WWDC-23.4-R
Fire Resistant Drum Cover - Round 26" (660mm)	WWDC-26-R
Fire Resistant Drum Cover - Square 21" (533.4mm)	WWDC-21-S
Fire Resistant Drum Cover - Square 24" (609.6mm)	WWDC-24-S
Fire Resistant Drum Cover - Octagon 20.5" (520.1mm)	WWDC-20.5-OC
Fire Resistant Drum Cover - Octagon 23.5" (597mm)	WWDC-23.5-OC

WIRE LEVEL GAUGE FOR DRUMS AND BOXES

Model DLG

The Wire Level Gauge makes it easy to detect the amount of wire left in wire drums or boxes. The gauge features magnetic wire detection that slides down the drum as wire is depleted, offering a convenient way to monitor wire usage.

- Detects level of wire remaining in the drum with colors & percentages
- Compatible with 500–1,000 LB (227–453 KG) drums/boxes (reversible design)
- Compatible with solid steel wires in fiber drum or cardboard packaging, not compatible with cored or non-ferrous wires



Close-up view

Wire Level Gauge Mounted on Drum

MECHANICAL TURN TABLE **Model WWTT-2012**

- 1000 lb (453kg) capacity accepts 20" to 26" (508-660mm) drums
- Designed to dispense all sizes and varieties of wire
- New and improved design includes built-in fork slots and optional wheels for easy mobility
- 4-axis adjustable arm with ceramic inlet guide prevents wire shaving
- Quick disconnect allows for easy conduit connections
- Excellent for submerged arc applications
- Optional cover will not compromise accessibility

Specifications

Height: 42" (1.067m) Width: 30" (762mm)
Length: 26" (660.4mm) Weight: 142 lbs (64.5kg)

WWTT-2012
MECHANICAL
TURN TABLE

TOP VIEW OF TURN TABLE
SHOWING WIRE GUIDE &
WIRE RETAINER RING

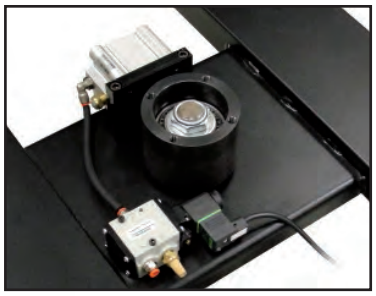
WWTT-WHEEL-12 Optional wheels

WWTT-COVER-13
Optional Cover
(open & closed)

BRAKE KITS FOR MECHANICAL TURN TABLE

Model WWTT-BRAKE-1-12 (OR WWTT-DB-12 FOR DRAG BRAKE KIT)

- Slows and stops drum for welding applications where a higher wire feed speed is required and prevents over-rotating



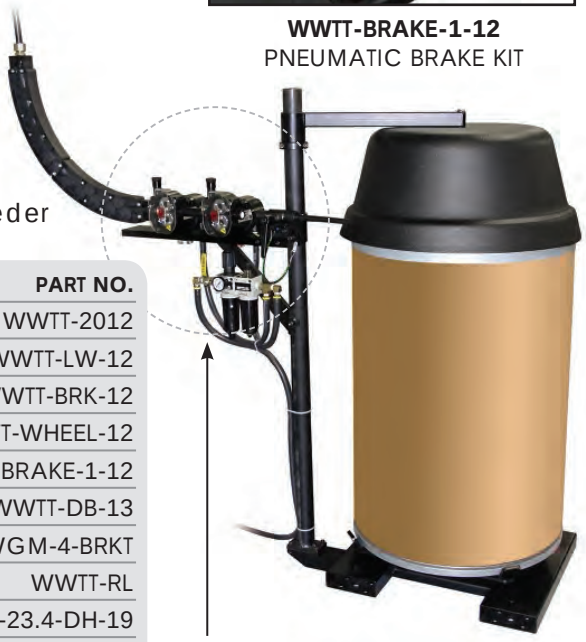
WWTT-BRAKE-1-12
PNEUMATIC BRAKE KIT

WIRE PILOT® TURN TABLE ADAPTER KITS

Models PFA-WWTT-B, PFA-WWTT-B1 & PFA-WWTT-B2

- Firmly mounts the Wire Pilot® Feed Assist(s) (see page 30) and filter/regulator/lubricator to the top of the turn table
- Allows for longer conduit runs from the drum to the wire feeder

ITEM	PART NO.
Mechanical Turn Table for wire under 3/32" (2.4mm)	WWTT-2012
Mechanical Turn Table for large wire over 3/32" (2.4mm)	WWTT-LW-12
Mechanical Turn Table (WWTT-2012) w/assembled pneumatic brake	WWTT-BRK-12
Turn Table Optional Wheels (set of 4)	WWTT-WHEEL-12
Pneumatic Brake Kit for Mechanical Turn Table	WWTT-BRAKE-1-12
Drag Brake Kit for Mechanical Turn Table	WWTT-DB-13
Wire Wizard Guide Module® Turn Table Adapter Bracket	WGM-4-BRKT
Turn Table Replacement Liner, includes ceramic inlet	WWTT-RL
Turn Table Replacement Wire Retainer	WWTT-23.4-DH-19
Turn Table Protective Cover	WWTT-COVER-13
Feed Assist Adapter Kit without Wire Pilot® Feed Assist	PFA-WWTT-B
Feed Assist Adapter Kit with 1 Wire Pilot® Feed Assist	PFA-WWTT-B1
Feed Assist Adapter Kit with 2 Wire Pilot® Feed Assists	PFA-WWTT-B2



PFA-WWTT-B2 WIRE PILOT® TURN TABLE ADAPTER KIT WITH DUAL FEED ASSISTS AND LARGE WIRE WIZARD® GUIDE MODULES
Ideal setup for many large diameter wire SAW applications

NON-STOP WIRE DISPENSING SYSTEM™

A unique process joins the end wire from a used drum with the start wire of a new full drum. Both butt-welding* and flash removal operations take only seconds and the two wire ends may be joined during the welding cycle.

- **Eliminates downtime for wire changeover**
- No operator action needed - robots can continue to weld while the next full drum is being installed
- Designed for use with optional **Wire Pilot® Feed Assist & Wire Guide Modules**
- Works with one or two-station robotic cells (2 or 4 drums)
- Accepts any fiber drum or cardboard wire packaging design
- Easy-to-use resistance Butt Welder *(welds up to .078 / 2mm wire)*
- Appropriate drum-handling carts available

Non-Stop System Dimensions

2 Drum Unit: 47" W x 29" D x 7' H (1.2m W x 0.74m D x 2.13m H)

4 Drum Unit: 47" W x 55" D x 7' H (1.2m W x 1.4m D x 2.13m H)

****Wire manufacturer must present wire end at top of dispensing drum to butt-weld beginning and ending of wires. Call customer service for information.***

NON-STOP WIRE DISPENSING SYSTEMS & ACCESSORIES

DESCRIPTION	PART NO.
System with 2 stations for 20.4" (518mm) Ø Drums (1-Torch)	NSW-20.4-2
System with 4 stations for 20.4" (518mm) Ø Drums (2-Torch)	NSW-20.4-4
System w/2 stations: 1000LB (453 KG) Accu-Pak Drums (1-Torch)	NSW-SC24-2
System w/4 stations: 1000LB (453 KG) Accu-Pak Drums (2-Torch)	NSW-SC24-4
System w/2 stations: 23.5" (597mm) Octagon Drums (1-Torch)	NSW-OC23.5-2
System w/4 stations: 23.5" (597mm) Octagon Drums (2-Torch)	NSW-OC23.5-4
Wall Mounted System w/2 stations: Compatible with most drums	NSW-WM
Wire Guide Module Swivel Kit Adapter (allows 360° rotation)	WGM-NSW-SW
Butt Welder Docking Station (110V)	NSW-BW-DS-R13
Butt Welder Docking Station (220V US)	NSW-BW-DS-220-R13
Butt Welder Docking Station (220V European)	NSW-BW-DS-220EU-R13
Portable Resistance Butt Welder (110V)	NSW-BW-R13
Portable Resistance Butt Welder (220V US)	NSW-BW-220-R13
Portable Resistance Butt Welder (220V European)	NSW-BW-220EU-R13
Wire Sizer for .035" (0.9mm) wire*	NSW-BW-WS-035
Wire Sizer for .045" (1.2mm) wire*	NSW-BW-WS-045
Wire Sizer for .052" (1.3mm) wire*	NSW-BW-WS-052
Wire Sizer for .062" (1.6mm) wire*	NSW-BW-WS-062
Wire Sizer for .078" (2mm) wire*	NSW-BW-WS-078
Wire Sizer without dies* *(must specify wire wize when ordering)*	NSW-BW-WS-1
Wire Dresser for Electric Rotary Tool *(alternative to Wire Sizer)*	NSW-BW-WD
Wire Parters *(included on butt welder docking station)*	BW-WP
Wire Gage Block *(included on butt welder docking station)*	WGB
Empty Barrel Signal Flag	NSW-BCF

** Wire Sizer replacement dies available. Contact customer service for more information.*

NSW-BCF
Optional
Empty Barrel
Signal Flag

NSW-SC24-2
Shown with optional **Butt Welder Docking Station.** Docking Station includes Butt Welder, Wire Parters and Wire Gage Block.

WGB
WIRE GAGE BLOCK
for .035, .045, .052 & .062 wire

BW-WP WIRE PARTERS
Leaves flat wire ends for easy butt-welding

NSW-BW-R13 or NSW-BW-220-R13
PORTABLE RESISTANCE BUTT WELDER
Welds up to .078 (2mm) ferrous metal wire

Eliminates Downtime for Wire Changeover!

COMPONENTS & BASIC SETUP

Additional Wire Exit Point Options

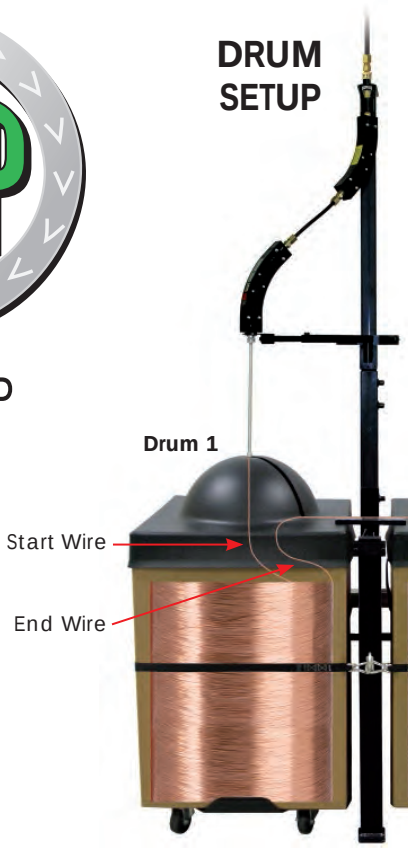
Wire Pilot® Feed Assist Mounting Adapter

NSW-PFA-AK-15 *(includes liner)*

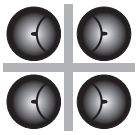
Guide Module(s)

May be mounted in a fixed position or with the Guide Module Swivel Kit to allow 360° rotation

DRUM SETUP

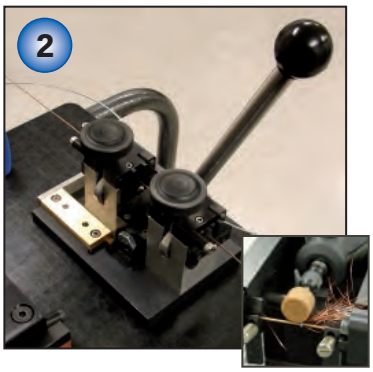


Single Torch Unit (with round drums)

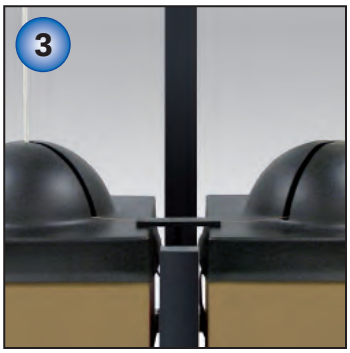


2-Torch Unit (with round drums)

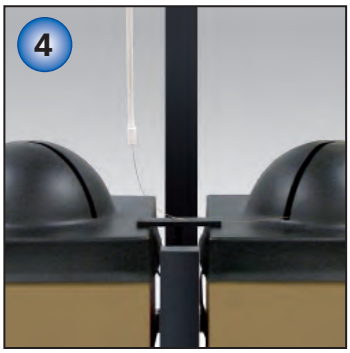
Join the end wire from drum 1 with the start wire from drum 2 using the Butt Welder.



Remove the flash in the wire joint using the Wire Sizer (or rotary tool with stone bit).



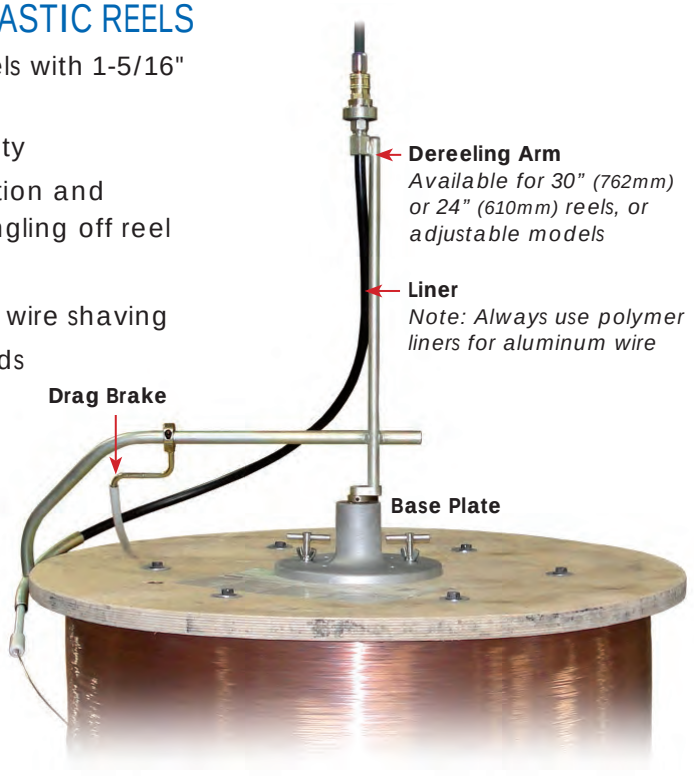
Position the wire on the path-way between the two drums.



When wire from drum 1 runs out, the transfer arm will switch over to drum 2. Simply replace empty drum and repeat steps 1-3.

TRADITIONAL DEREELING ARMS FOR WOOD & PLASTIC REELS

- Universal base plate designs fit all wood or plastic reels with 1-5/16" (33mm) or 5" (127mm) center arbors
- Twin locking cams secure base plate to reel for stability
- Spring-loaded drag brake provides smooth acceleration and deceleration of feed arm and prevents wire from shingling off reel
- Outer tube radius and lead will not change wire cast
- Ceramic inlet guide provides long wear and prevents wire shaving
- Large coupler bearing resists both thrust and "G" loads
- Easy installation, typically requires little adjustment
- Kits (RW#) include arm, liner, brake, base plate & quick disconnect


Dereeling Arm
Available for 30" (762mm) or 24" (610mm) reels, or adjustable models
Liner
Note: Always use polymer liners for aluminum wire
Drag Brake
Base Plate

C-36 BASE PLATE FOR 5" (127mm) ARBOR HOLES *(use C-36-NS for National Standard® reels with 3/4" wood)*

C-37 BASE PLATE FOR 1-5/16" (33mm) ARBOR HOLES

DEREELING ARMS AND COMPONENTS

ITEM/WIRE SIZE	REEL DIAMETER	ARBOR HOLE SIZE	LINER TYPE	PART NO.
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	30" (762mm)	5" (127mm)	Steel	RW1034-C36
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	30" (762mm)	5" (127mm)	Polymer	RW1034P-C36
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	30" (762mm)	1-5/16" (33mm)	Steel	RW1034-C37
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	30" (762mm)	1-5/16" (33mm)	Polymer	RW1034P-C37
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	24" (610mm)	5" (127mm)	Steel	RW1035-C36
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	24" (610mm)	5" (127mm)	Polymer	RW1035P-C36
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	24" (610mm)	1-5/16" (33mm)	Steel	RW1035-C37
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	24" (610mm)	1-5/16" (33mm)	Polymer	RW1035P-C37
Dereeling Arm Kit for 1/16" - 5/32" (1.6-4mm) wire	30" (762mm)	5" (127mm)	Steel (lg.)	RW1028-C36
Dereeling Arm Kit for 1/16" - 5/32" (1.6-4mm) wire	30" (762mm)	1-5/16" (33mm)	Steel (lg.)	RW1028-C37
Arm for Nat. Standard® 3/4" wood reels, .035-1/16" wire	24" (610mm)	5" (127mm)	Steel	RW1035-C36NS
Arm for Nat. Standard® 3/4" wood reels, .035-1/16" wire	24" (610mm)	5" (127mm)	Polymer	RW1035P-C36NS
Adjustable Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire*	Adjustable	5" (127mm)	Polymer	RW1042-C40
Adjustable Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire*	Adjustable	5" (127mm)	Steel	RW1043-C40
Adjustable Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire*	Adjustable	1-5/16" (33mm)	Polymer	RW1042-C41
Adjustable Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire*	Adjustable	1-5/16" (33mm)	Steel	RW1043-C41
Base Plate for 5" (127mm) Arbor Holes	—	5" (127mm)	—	C-36
Base Plate for 1-5/16" (33mm) Arbor Holes	—	1-5/16" (33mm)	—	C-37
Base Plate for National Standard® Reels w/ 3/4" wood	—	5" (127mm)	—	C-36-NS
Replacement Arm for 30" (762mm) Reels (steel liner)	30" (762mm)	—	Steel	C-34
Replacement Arm for 30" (762mm) Reels (polymer liner)	30" (762mm)	—	Polymer	C-34P
Replacement Arm for 24" (610mm) Reels (steel liner)	24" (610mm)	—	Steel	C-35
Replacement Arm for 24" (610mm) Reels (polymer liner)	24" (610mm)	—	Polymer	C-35P
Large Replacement Arm for 30" (762mm) Reels	30" (762mm)	—	—	C-28
Replacement drag brake				C-12-12

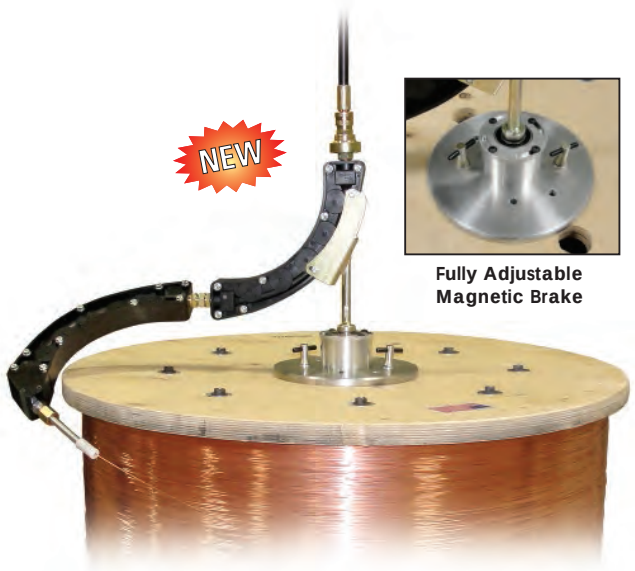
Replacement Liners: C-34-LINER (steel) & C-34P-LINER (polymer) for all RW1034 arms; C-35-LINER (steel) & C-35P-LINER (polymer) for all RW1035 arms; C-28-LINER (steel) for the RW1028 arm.

Adjustable Dereeling Arm Kits include magnetic brake shown on page 12.

For National Standard® wood reels: Be sure to check the thickness of the wood top prior to ordering, those that have a 3/4" thick top require the specific National Standard® part numbers listed above.

WIRE WIZARD® HIGH PERFORMANCE GUIDE MODULE DEREELING ARMS

The new **Wire Wizard® Guide Module Dereeling Arm** design utilizes patent pending Wire Guide Modules and a new magnetic brake design for low friction, flawless delivery of wire from wood reels. The Guide Module Arm is designed to eliminate skid friction on the wire, which provides a smoother wire feed than traditional dereeling arms. The innovative new magnetic brake design outlasts drag brakes and allows precise adjustment to prevent wire shingling.



WIRE WIZARD WELDING PRODUCTS GUIDE MODULE SYSTEM®

- New arm design utilizing **Wire Wizard® Guide Modules** eliminates skid friction, providing a smoother wire feed than traditional dereeling arms
- Base plate designs to fit 30” wood reels with 1-5/16" (33mm) or 5" (127mm) center arbors
- New adjustable magnetic brake provides smooth acceleration and deceleration of feed arm and prevents wire from shingling off reel
- Magnetic brake design will not wear out like traditional drag brakes do over time
- Ceramic inlet guide provides long wear and prevents wire shaving
- Kits (RW#) include arm, liner, brake, base plate & quick disconnect

GUIDE MODULE DEREELING ARMS AND COMPONENTS

ITEM/WIRE SIZE	REEL DIAMETER	ARBOR HOLE SIZE	PART NO.
WGM Dereeling Arm Kit for .035 - 1/16” (0.9-1.6mm) wire	30” (762mm)	5” (127mm)	RW1039-C40
WGM Dereeling Arm Kit for .035 - 1/16” (0.9-1.6mm) wire	30” (762mm)	1-5/16” (33mm)	RW1039-C41
Base Plate w/Magnetic Brake for 5” (127mm) Arbor Holes	—	5” (127mm)	C-40
Base Plate for w/Magnetic Brake 1-5/16” (33mm) Arbor Holes	—	1-5/16” (33mm)	C-41
Replacement Guide Module for Dereeling Arm (upper)	—	—	WGM-C-1
Replacement Guide Module for Dereeling Arm (lower)	—	—	WGM-C-1A

WOOD REEL COVERS

Models RWC1111-30 & RWC1111-30S

- Designed specifically for 30" (762mm) spools
- Prevents access to dispensing unit during operation
- Available in both **unbreakable** polyethylene (**RWC1111-30**) or economical, soft sided (**RWC1111-30S**) models
- Clear side and top panels provide easy access
- Polyethylene model comes fully assembled (commercially shipped)
- Soft cover is shippable via UPS

RWC1111-30S SOFT COVER helps protect welding wire from dust and other contaminants

RWC1111-30 REEL ASSEMBLY shown on a **WRSC** Staging Cart

SINGLE AND TANDEM VERTICAL DEREELERS FOR WOOD REELS

Models WWA-12-1 (single) & WWA-12-2 (tandem)

Wire Wizard® Single and Tandem Vertical Dereelers are built to deliver large diameter wire from 1/16" (1.6mm) to 3/16" (4.8mm) on up to 30" (762mm) wood reels. Wire may be dispensed from either the top or the bottom of the dereeler. The tandem model (shown at right) offers dispensing of two wood reels with a small footprint, saving valuable floor space.

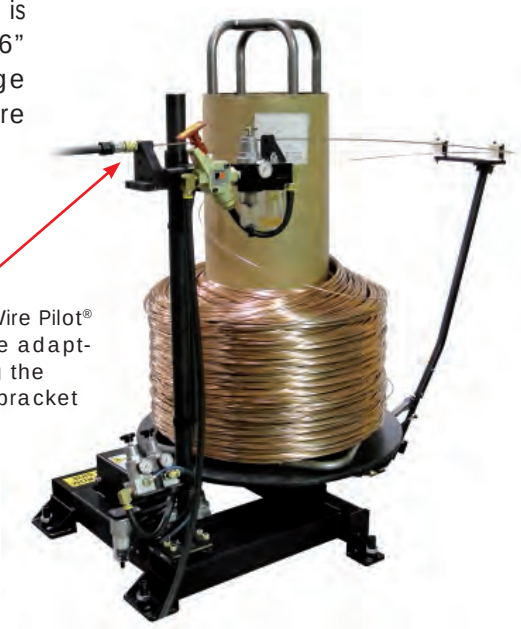
- Wire Wizard® Guide Modules (included) eliminate points of high friction when dispensing wire from the base
- Adjustable brake allows fine tuning to prevent wire flip
- Optional **Wire Pilot® Feed Assist(s)** recommended for reduced pull on the feed motor & long distance runs
- Polished ceramic inlet guides prevent wire shaving

MODEL WWA-12-2
Tandem Vertical Dereeler shown with optional Feed Assists and top/bottom dispensing setup.

MOTORIZED STEM PACK DEREELER Model WWA-8

The heavy duty Wire Wizard® Motorized Stem Pack Dispensing System is the ideal way to handle large diameter wire from 1/16" (1.6mm) to 3/16" (4.8mm). This horizontal dereeler allows for accurate welding with large wire by completely eliminating wire flip as well as preventing flux-core splitting, excessive tip wear, pulsating, burn back and blown holes.

- **Eliminates wire flip**
- Compatible with up to 2,200 LB (998 KG) bulk stem packs and wood reels, for up to 3/16" (4.8mm) wire
- Does not change the cast of the wire
- Helps prevent tip wear, pulsating, burn back & blown holes
- Dispenses large diameter wire at speeds up to 250 IPM
- Optional protective cover available (WWA-8-C)
- Optional **Wire Pilot® Feed Assist(s)** can be adapted to the unit for reduced pull on the feed motor & for long distance feeding
- Heavy duty pneumatic motor – requires no electrical connection



Single or tandem Wire Pilot® Feed Assists may be adapted to the unit using the PFA-DM mounting bracket *(see page 30)*

MODEL WWA-8
STEM PACK DISPENSER

ITEM	PART NO.
Single Vertical Dereeler for Wood Reels	WWA-12-1
Tandem Vertical Dereeler for Wood Reels	WWA-12-2
Motorized Stem Pack Dispenser	WWA-8
Motorized Reel Dispenser for Aluminum Wire	WWA-10
Motorized Reel Dispenser for Steel Wire	WWA-11
Protective Cover for Stem Pack Dispenser	WWA-8-C
Wire Pilot® Feed Assist Dual Mounting Bracket Option	PFA-DM

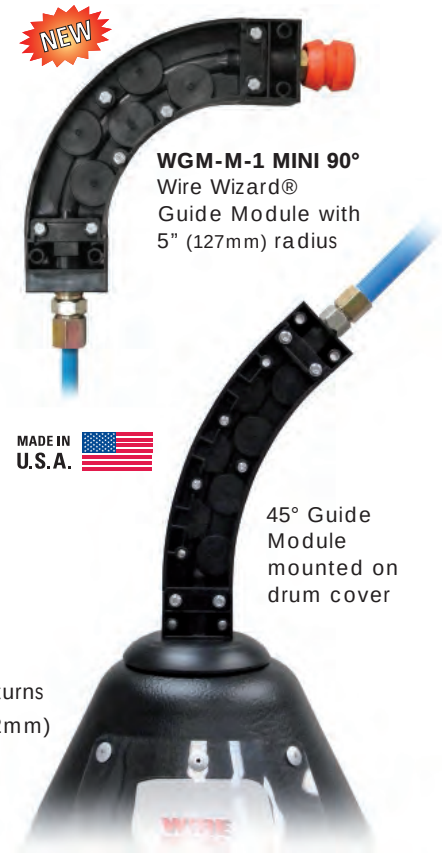
THE NEW PATH OF LEAST RESISTANCE!™

WIRE WIZARD® WELDING PRODUCTS GUIDE MODULE SYSTEM®

The innovative **Wire Wizard Guide Module® System** utilizes a series of rollers with bearings to allow the weld wire to "coast" around bends and corners in the conduit, eliminating the points of high friction that occur in these areas. By eliminating the friction on the wire, it eliminates arc failures, improves consistency and enables considerably longer conduit runs of 100 feet or more, allowing wire packages to be centrally located. Each 45° Guide Module may be connected to additional modules to form turns of 90°, 135° or 180° within the wire dispensing system. Compatible with ferrous and non-ferrous wires. PATENT PENDING

- **Eliminates skid friction** on the wire in areas where bends/corners are necessary throughout the wire dispensing system
- Smooth, low friction wire feeding **improves consistency of welds, eliminates arc failures and reduces downtime**
- In product testing, the Guide Module turned **POUNDS of pull force at the feeder into OUNCES!**
- Allows long distance conduit runs of 100 ft+ (30.5m+)
- Increases life of the conduit & consumables by reducing friction
- Saves floor space by allowing wire packages to be located closer to the cell wall
- Considerably less expensive than alternative methods of eliminating friction on wire over long distances
- 45° modules may be connected together to form a 90° turn, 135° turn, 180° turn
- Mounting accessories available for most welding applications
- Tool & Diagnostic Kit available, inc. assembly & testing tools
- **Four Models Available to Cover Virtually all Welding Applications:**
  Standard Guide Module: For solid wires .035 to 5/64" (0.9 – 2mm)
  90° Mini Guide Module: For solid wires up to .052 (1.3mm), compact size for tight 90° turns
  Heavy Duty Guide Module HD*: For cored & stainless steel wires .035 to 5/64" (0.9 – 2mm)
  Large Guide Module XL*: Compatible with large wire 3/32" to 5/32" (2.4 – 4mm)
- **2 YEAR GUARANTEE!** *(excludes damage caused by industrial contaminants)*

**The Guide Module HD and XL models contain heavy duty steel rollers*

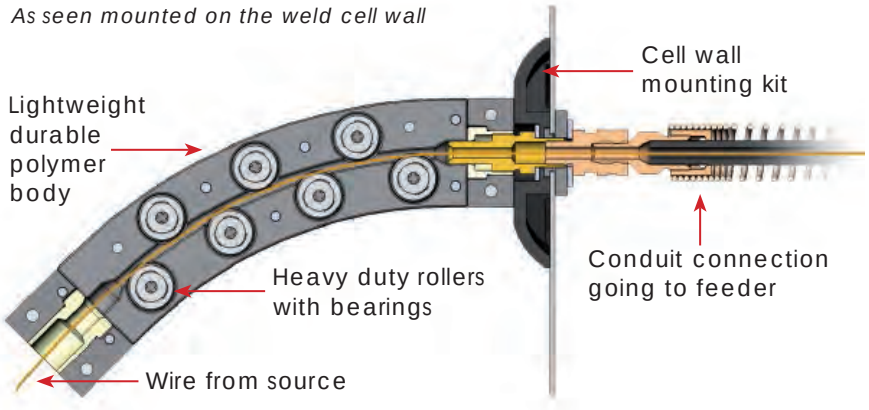


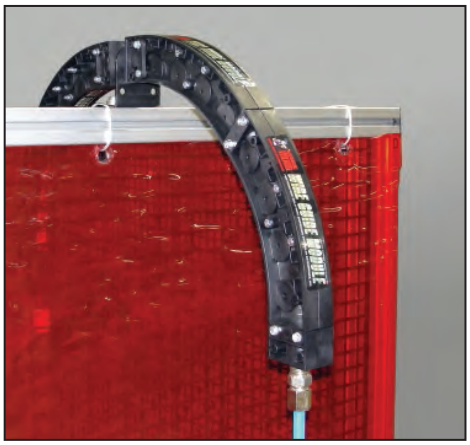
WGM-M-1 MINI 90° Wire Wizard® Guide Module with 5" (127mm) radius

45° Guide Module mounted on drum cover

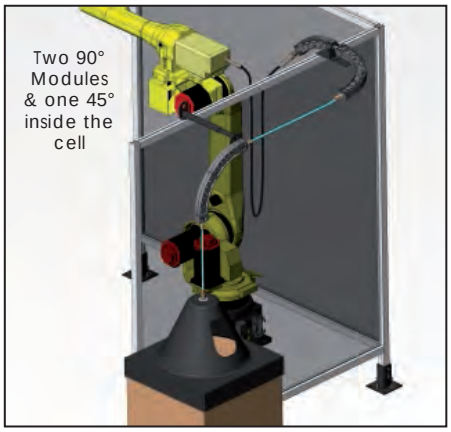
INTERNAL VIEW

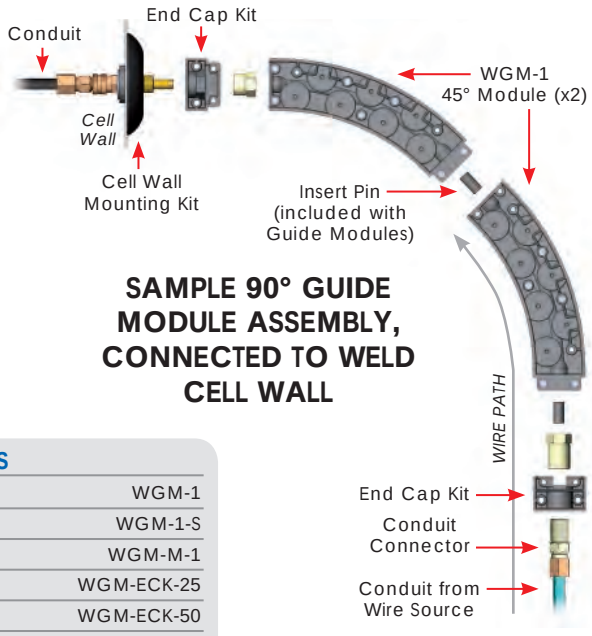
As seen mounted on the weld cell wall


Cell wall mounting kit
Lightweight durable polymer body
Heavy duty rollers with bearings
Conduit connection going to feeder
Wire from source



Installation with 90° and 45° (cell interior) Guide Modules mounted on top of cell wall





SAMPLE 90° GUIDE MODULE ASSEMBLY, CONNECTED TO WELD CELL WALL

STANDARD WIRE GUIDE MODULE PARTS & ACCESSORIES

Wire Wizard Guide Module®, Single 45° (for wire up to 5/64" / 2mm)	WGM-1
Wire Wizard Guide Module® HD, Single 45° (for stainless/cored wire up to 5/64" / 2mm)	WGM-1-S
Wire Wizard Guide Module® Mini 90°, Single 90° (for wire up to .052 / 1.3mm)	WGM-M-1
Guide Module End Cap Kit 1/4" NPS-F (for A-4 or A-4-ST disconnect)	WGM-ECK-25
Guide Module End Cap Kit 1/2" NPS-F (for A-10HM, A-10XM, A-10RM or A-5)	WGM-ECK-50
Guide Module Conduit Connector for EC-4-R Conduit	A-10HM
Guide Module Conduit Connector for FC-X Conduit	A-10XM
Guide Module Conduit Connector for FC-XH and EC-5 Conduit	A-10RM
Guide Module Insulated Connector with Quick Disconnect	WGM-A5
Guide Module Direct Pull Inlet (includes ceramic inlet guide)	WGM-DP-LW
Guide Module Support Bracket	WGM-021
Guide Module Support Bracket with Slotted Holes	WGM-024
Guide Module 45° Angle Support Bracket	WGM-025
Guide Module Weld-on or Bolt-on Support Bracket	WGM-044
Guide Module Bracket for Stacking/Mounting up to 3 Guide Modules	WGM-SMB-3
Guide Module 90° Hanging Bracket Kit	WGM-1-90-BRKT
Guide Module 45° Hanging Bracket Kit	WGM-1-BRKT
Guide Module Face Mount Bracket w/nut for A-10HM or A-10XM	WGM-A-10BK
Guide Module Insulated Face Mount Bracket w/nut & insulators for A-10HM or A-10XM	WGM-2-BRKT
Guide Module Side Mounting Bracket for Attachment to the WGM-PFA-STAND	WGM-3-BRKT
Guide Module Drum Mounting Kit for use w/Wire Wizard® Hoods	WGM-DK
Guide Module 2-13" (51-330mm) Adjustable Extension Arm with Adjustable Length & Height	WGM-CM-1
Guide Module 10" (254mm) Adjustable Extension Arm w/Hinge Point	WGM-EA-10
Guide Module 20" (508mm) Adjustable Extension Arm w/Hinge Point	WGM-EA-20
Guide Module Swivel Kit for Direct Connection to Wire Feeder Disconnect	WGM-FSK-14
Guide Module Drum Hood Swivel Kit for use w/Wire Wizard® Hoods	WGM-HSK-15
Guide Module Swivel Kit for Connecting Stationary to Swiveling Guide Modules	WGM-MSK-14
Guide Module Floor Mounting Bracket	WGM-FLM
Guide Module Feeder Inlet Mounting Kit	WGM-IK
Guide Module L-bracket Mounting Kit	WGM-LBM-BRKT
Guide Module Union Adapter	WGM-UA
Guide Module Union Adapter Kit (washer & bracket mounts)	WGM-UAK
Guide Module Wall Mount Kit, Single Sided	WGM-WK-1-1
Guide Module Adjustable Wall Mount Kit for up to 3" (76mm) thick walls, Single Sided	WGM-WK-1-3
Guide Module Wall Mount Kit, Double Sided	WGM-WK-2-1
Adjustable Drum/Reel Stand for Guide Modules, 50"–90" H (1270-2286mm)	WGM-PFA-STAND
Guide Module Swivel Kit for WGM-PFA-STAND	WGM-STAND-SW-14
Guide Module Tool & Diagnostic Kit - inc. required tools for assembly & testing	WGM-ATK

LARGE WIRE GUIDE MODULE PARTS & ACCESSORIES

Large Wire Wizard Guide Module® XL, Single 45° (for wire 3/32" to 5/32" / 2.4–4mm)	WGM-LW-1
Large Guide Module End Cap Kit, 3/8" NPS-F (for A-4HD disconnect)	WGM-LW-ECK-38
Large Guide Module End Cap Kit, 1/2" NPS-F (for A-9)	WGM-LW-ECK-50
Large Guide Module Conduit Connector for FC-XH-LW Conduit	A-9
Hanging Bracket for Large Wire Guide Modules (45° or 90°)	WGM-LW-BRKT

GUIDE MODULE TOOL & DIAGNOSTIC KIT

Model WGM-ATK

Contains all the essential tools for installation & testing of the Wire Wizard® Guide Module System.

Kit Includes:

- Required wrenches and pliers
- Countersink Tool (see page 43)
- Stone bit for rotary tools
- Wire Draw Gauge (see page 43)
- Extra nuts & bolts
- Installation videos (on USB flash drive)

FOR CORED WIRE APPLICATIONS:

Required for initial feeding of cored wires.

Wire Guide Caps (10 pk)
GC-1 for up to .052 wire
GC-2 for .062-3/32" wire
GC-CRIMPER Crimper for Wire Guide Caps

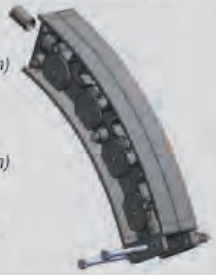
WIRE WIZARD GUIDE MODULE® SYSTEM COMPONENTS & MOUNTING ACCESSORIES

45° WIRE GUIDE MODULES

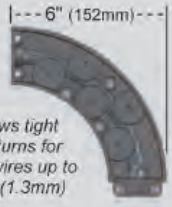
WGM-1
For solid wire up to 5/64" (2mm)

WGM-1-S
For cored & stainless wire up to 5/64" (2mm)

WGM-LW-1
For large wire 5/64" to 3/32" (2mm-4mm)



90° MINI GUIDE MODULE



Allows tight 90° turns for solid wires up to .052 (1.3mm)

Part # **WGM-M-1**
Uses same end caps as WGM-1

END CAP CONNECTORS

Each kit includes one A & one B end cap

WGM-ECK-50
(use -25 for A-4 or A-4-ST disconnect)

WGM-ECK-LW-50 *For WGM-LW-1*
(use -38 for A-4HD disconnect)

FACE MOUNT BRACKET KIT

Allows 360° directional adjustment

Part # **WGM-A-10BK**

Add WGM-A5 or order WGM-2-BRKT for insulated connections

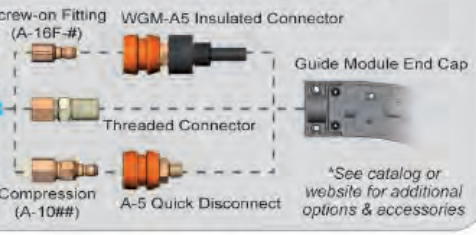
CONDUITS & FITTINGS — WIRE WIZARD® POLYMER CONDUIT

EC-3-R *(4.4mm I.D.)*
Fittings: A-16F-3 or A-10C-S

EC-4-R *(7.6mm I.D.)*
Fittings: A-16F-4 or A-10C-H

EC-5 *(10.2mm I.D.)*
Fittings: A-16F-5 or A-10R

EC-6 *(14mm I.D.)*
Fittings: A-16-F-6 or A-9



**See catalog or website for additional options & accessories*

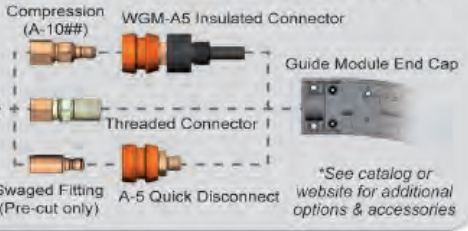
CONDUITS & FITTINGS — WIRE WIZARD® EXTRA FLEXIBLE CONDUIT

FC-X *(6.1mm I.D.)*
Fitting: A-10C-X

FC-XH *(7.4mm I.D.)*
Fitting: A-10R

FC-XH-LW *(10mm I.D.)*
Fitting: A-9

FC-X-SW* *(2.3mm I.D.)*
Only for wire .035 & under



**See catalog or website for additional options & accessories*

CELL WALL MOUNTING KIT, SINGLE SIDED

Part # **WGM-WK-1-1**

CELL WALL MOUNTING KIT, DOUBLE SIDED

Part # **WGM-WK-2-1**

ADJUSTABLE WALL MOUNT BRACKET

Part # **WGM-WK-1-3**
Adjustable for up to 3" (76 mm) thick walls

FLOOR MOUNTING BRACKET

Part # **WGM-FLM**
Modules may be attached to one or both sides

GUIDE MODULE STAND FOR DRUM OR WOOD REEL APPLICATION

Part # **WGM-PFA-STAND**
Includes stand and one adjustable extension arm

Optional swivel with 90° module

WGM-A-10BK

WWDP Direct Pull Kit

Wire Pilot® Feed Assist Option

Drum -or- Wood Reel

Wire Spool Option WGM-PFA-STAND-4

Adjustable height from 50"–86" (1.3-2.2m)

Adjustable arm length from 4"–19" (102-483mm)

GUIDE MODULE STAND FOR MEZZANINE APPLICATION

For applications where wire source is above weld cell

Part # **WGM-3-BRKT**
Side Mount Bracket

WWDP Direct Pull Kit

Additional arm, part # WGM-PFA-STAND-ARM

Drum -or- Wood Reel

Conduit to wire feeder

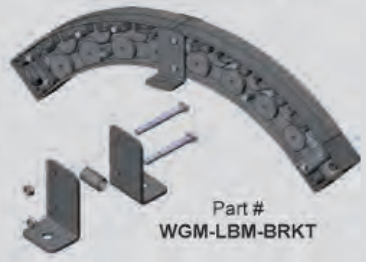
Adjustable height from 50"–86" (1.3-2.2m)

Adjustable arm length from 4"–19" (102-483mm)

Wire Wizard® Fire Resistant Drum Covers & Dollies Available

Part # **WGM-PFA-STAND**

L-BRACKET MOUNTING KIT



Part # **WGM-LBM-BRKT**

360° UNION ADAPTER KIT

Allows dual 360° directional adjustment

Part # **WGM-UAK**
Includes Bracket

Part # **WGM-UA**
Adapter Kit Only

THE NEW PATH OF LEAST RESISTANCE!™

CONDUIT CONNECTORS

THREADED CONNECTORS

A-10HM
For EC-4-R

A-10XM
For FC-X

A-10RM
For FC-XH & EC-5

A-9
For FC-XH-LW

DETACHABLE QD CONNECTORS

WGM-A5
Insulated Connector with quick disconnect

A-5
Quick Disconnect for WGM-1 & WGM-1-S

A-4HD
Quick Disconnect for WGM-1-LW

A-5 with U-005 insulator sleeve

INSULATED FACE MOUNT BRACKET

Allows 360° directional adjustment

Part #
WGM-2-BRKT

DRUM HOOD MOUNTING KIT

Part #
WGM-DK

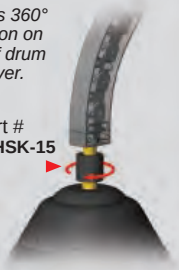
GUIDE MODULE DIRECT PULL INLET

Part #
WGM-DP-LW
Includes ceramic inlet that will not shave wire

HOOD SWIVEL KIT

Allows 360° rotation on top of drum cover.

Part #
WGM-HSK-15



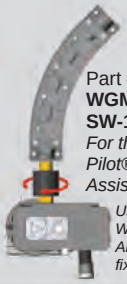
GUIDE MODULE SWIVEL KITS

Part #
WGM-FSK-14
Creates 360° rotation point at the feeder disconnect

Part #
WGM-FSK-L
Swivel for Lincoln Electric® Series 10 style inlets (inc. inlet guide)

Part #
WGM-MSK-14
Creates 360° rotation point between two Modules

ADD-ON SWIVEL KITS



Part #
WGM-PFA-SW-15
For the Wire Pilot® Feed Assist

Use Part # WGM-PFA-AK-15 for fixed mount

Part #
WGM-NSW-SW
For the Non-Stop™ Dispensing System

45° MODULE HANGING BRACKET KIT

Part #
WGM-1-BRKT

90° HANGING BRACKET KIT

Part #
WGM-1-90-BRKT
(WGM-LW-BRKT for WGM-LW-1)

STACKABLE GUIDE MODULE BRACKET

Allows mounting of up to 3 stacked modules

Part #
WGM-SMB-3

FEEDER INLET MOUNT KIT

Mounts to feeder through bracket or panel

Sample installation on bracket

Part #
WGM-IK
Excludes Bracket

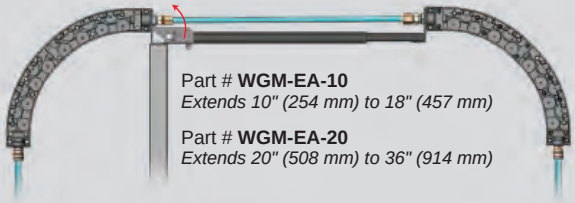
ADJUSTABLE EXTENSION ARM

For installation at the top of the weld cell wall

Part #
WGM-CM-1
Extends 2" (51 mm) to 13" (330 mm), adjustable height up to 6.5" (165 mm)

PIVOTING ADJUSTABLE EXTENSION ARMS

Both arms pivot upward to allow easy wire feeding from drums & reels



Part # **WGM-EA-10**
Extends 10" (254 mm) to 18" (457 mm)

Part # **WGM-EA-20**
Extends 20" (508 mm) to 36" (914 mm)

TURN TABLE MODULE ADADPTER

Secures Modules to Wire Wizard® Turn Table

Part #
WGM-4-BRKT

Compatible with WGM-1, WGM-1-S & WGM-LW-1

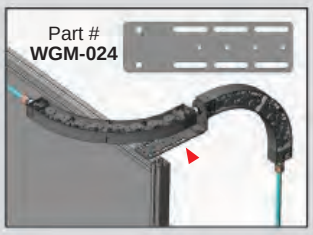
WELD-ON OR BOLT-ON MOUNTING BRACKET

Part #
WGM-044

SUPPORT BRACKET

Part #
WGM-021

SLOTTED SUPPORT BRACKET



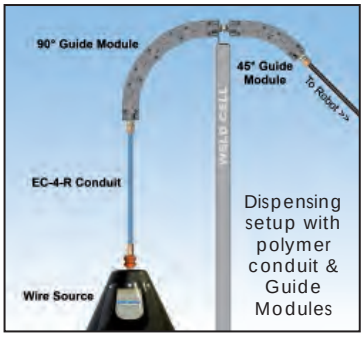
Part #
WGM-024

45° ANGLE SUPPORT BRACKET

Part #
WGM-025

Custom mounting brackets and other accessories can be built for your specific welding application. Please contact customer service or your ELCo Regional Sales Manager for more information.

BLUE POLYMER CONDUIT
Shown as cut length with connector options



Dispensing setup with polymer conduit & Guide Modules

BLUE POLYMER CONDUIT *(see page 22 for size reference table)*

Known throughout the industry for its longevity and low friction coefficient, this durable conduit has proven to outlast metal lined products while still providing much less pull on the feed motor. It's your first choice for stationary, moving feed units and is also the recommended conduit for aluminum wire applications. EC-3-R & EC-4-R conduits feature advanced cross-linked polymer for extended wear and durability.

- **Available in four sizes:** EC-3-R for light wire; EC-4-R for standard wire sizes; EC-5 & EC-6 for large wire *(see wire size ref. chart on pg 22)*
- Available in pre-cut lengths with attached self-threading bayonets or in bulk 50', 100', 250' or 500' rolls (15.2m, 30.5m, 76.2m or 152.4m)
- Ideal for both ferrous & non-ferrous wire, **required for aluminum wire applications**
- Recommended for feeding from the source to the weld cell exterior
- Self threading or compression style connectors available *(see pg 21)*

CONNECTOR OPTIONS

Self-threading "screw-on" style fitting

Compression style fitting with ferrule

EC-CUTTER
(see page 43)

P/N	CONDUIT DIMENSIONS	CONNECTOR TYPE SELF THREAD		COMPRESSION	REPLACE FERRULE
EC-3-R*	.175 ID (4.4mm) x .340 OD	A-16F-3	or	A-10C-S	A-10SFE
EC-4-R*	.300 ID (7.6mm) x .460 OD	A-16F-4	or	A-10C-H	A-10CFE
EC-5	.400 ID (10.2mm) x .600 OD	A-16F-5	or	A-10R	A-10RFE
EC-6	.550 ID (14mm) x .750 OD	A-16F-6	or	A-9/A-6	A-9FE

EC-3-R & EC-4-R are cross-linked polymer conduits, ideal for robotic applications

BULK CONDUIT
In 50', 100', 250' or 500' rolls

P/N	P/N EXTENSION (LENGTH IN FT)
EC-3R-	50-B, 100-B, 250-B or 500-B
EC-4R-	50-B, 100-B, 250-B or 500-B
EC-5-	50-B, 100-B, 250-B or 500-B
EC-6-	50-B, 100-B, 250-B or 500-B

EC-4-R PRE-CUT CONDUIT*
A-16F-4 Bayonet Attached

P/N	LENGTH
EC4-120	120" – 10 ft (3m)
EC4-180	180" – 15 ft (4.6m)
EC4-240	240" – 20 ft (6.1m)
EC4-300	300" – 25 ft (7.6m)

EC-5 PRE-CUT CONDUIT*
A-16F-5 Bayonet Attached

P/N	LENGTH
EC5-120	120" – 10 ft (3m)
EC5-180	180" – 15 ft (4.6m)
EC5-240	240" – 20 ft (6.1m)
EC5-300	300" – 25 ft (7.6m)

EC-6 PRE-CUT CONDUIT*
A-16F-6 Bayonet Attached

P/N	LENGTH
EC6-120	120" – 10 ft (3m)
EC6-180	180" – 15 ft (4.6m)
EC6-240	240" – 20 ft (6.1m)
EC6-300	300" – 25 ft (7.6m)

Custom pre-cut lengths of conduit are available, contact customer service for ordering information

WIZARD TOUGH®
CROSS-LINKED POLYMER

QUALITY TESTED FOR MAXIMUM DURABILITY!

We tested the flexural strength of our EC-3-R & EC-4-R cross-linked polymer conduit against a leading competitor by continuously flexing it back & forth until it finally cracked. ***Our conduit survived this rigorous test over 70 TIMES longer than the leading competitor. The results speak for themselves!***

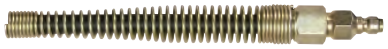
Flexural Strength Testing Device

EXTRA FLEXIBLE CONDUIT *(see page 22 for size reference table)*

Our most durable conduit displays exceptional wear characteristics and very low friction coefficient. Perfect for robotics, gantry, linear, or any application where a tighter radius is required. Available in pre-cut lengths, 100 ft (30.5m) bulk coils, or by the foot. All Extra Flexible Conduit now features a spatter-resistant outer jacket, low friction smooth-feed wire coating and patent pending elliptical wire spring liners.

- **Available in four sizes:** FC-X - Standard; FC-XH - Heavy Duty; FC-XH-LW - For lg. diameter wire; FC-X-SW - For sm. diameter wire
- Available in 1 to 100 ft (305mm to 30.5m) continuous length coil
- FC-X and FC-XH are available in cut lengths with attached bayonets on each end (swaged style)
- Compression or swaged style connectors available *(see page 21)*

POLYMER STRAIN RELIEF OPTION (**-ST**)
Recommended for light mobility applications



STEEL STRAIN RELIEF OPTION (SEE PAGE 19)
Recommended for high mobility applications

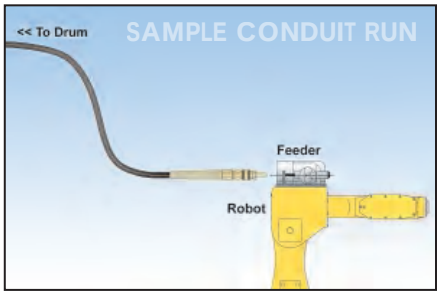
P/N	DIMENSIONS	CONNECTOR	FERRULE
FC-X-SW	.090 ID (2.3mm) x .353 OD (9mm)	A-10C-S	A-10SFE
FC-X	.241 ID (6.1mm) x .500 OD (12.7mm)	A-10C-X	A-10XFE
FC-XH	.291 ID (7.4mm) x .610 OD (15.5mm)	A-10R	A-10RFE
FC-XH-LW	.390 ID (10mm) x .750 OD (19mm)	A-9/A-6HD	A-9-FE

Conduit Color Coding - Pre-cut lengths are color-coded as follows:

10 FT (3m) RED | **15 FT (4.6m) WHITE** | **20 FT (6m) YELLOW** | **25 FT (7.6m) BLUE**

EXTRA FLEXIBLE CONDUIT
Shown as cut length with connector options

FC-X CONDUIT (EXPLODED VIEW)



FC-XH Conduit going to the robot

FC-X PRE-CUT CONDUIT* with A-11X Swaged Bayonet

P/N	LENGTH
FCXS-120	120" – 10 ft (3m)
FCXS-180	180" – 15 ft (4.6m)
FCXS-240	240" – 20 ft (6.1m)
FCXS-300	300" – 25 ft (7.6m)

FC-XH PRE-CUT CONDUIT* with A-11XH Swaged Bayonet

P/N	LENGTH
FCXHS-120	120" – 10 ft (3m)
FCXHS-180	180" – 15 ft (4.6m)
FCXHS-240	240" – 20 ft (6.1m)
FCXHS-300	300" – 25 ft (7.6m)

BULK CONDUIT* sold in 100 ft (30.5m) sections

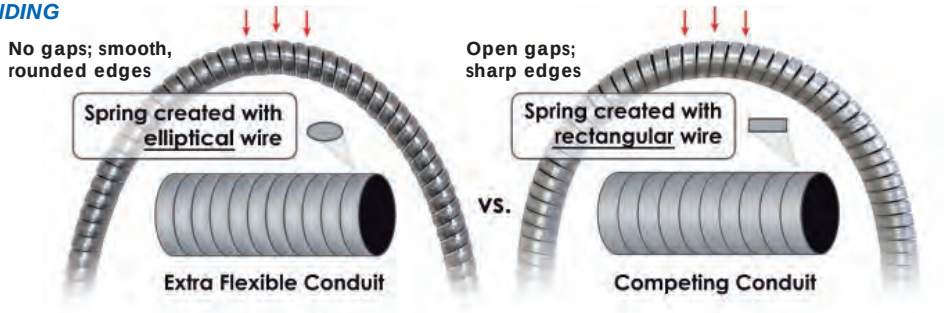
P/N	LENGTH
FC-X-SW-B	100 ft (30.5m)
FC-X-B	100 ft (30.5m)
FC-XH-B	100 ft (30.5m)
FC-XH-LW-B	100 ft (30.5m)

Add "ST" to end of part # for polymer strain relief, "SR" for steel strain relief
Delete "S" from part number for compression connections

**** Custom pre-cut lengths available, contact customer service for details***

ELLIPTICAL WIRE LINERS *PATENT PENDING*

All ELCo spring liners featured in our Extra Flexible Conduit and Torch Liners are built with a unique elliptical wire to help **eliminate wire shaving** and to **reduce drag coefficient.** To the right are images displaying the difference between ELCo & a typical spring liner.



EXTREME FLEX CONDUIT
Shown as cut length with
connectors and strain reliefs

EXTREME FLEX CONDUIT *(see page 22 for size reference table)*

The new **Extreme Flex Conduit** is designed for robotic welding applications requiring a high degree of mobility and flexibility. It features the same low friction elliptical wire spring liner as the Extra Flexible conduit, only with a single outer jacket to provide more flexibility. Extreme Flex conduit is the ideal choice for robotic weld cells with a tight space between the wire source and the robot.

- Sold in pre-cut lengths with attached connectors, fittings are available for both Wire Wizard® or Panasonic® style quick disconnects as well as threaded disconnects
- Suitable for steel wire sizes up to .052 (1.3mm)
- Polymer strain reliefs included on all pre-cut lengths for enhanced strength at connection points

POLYMER STRAIN RELIEF
Included on all pre-cut lengths

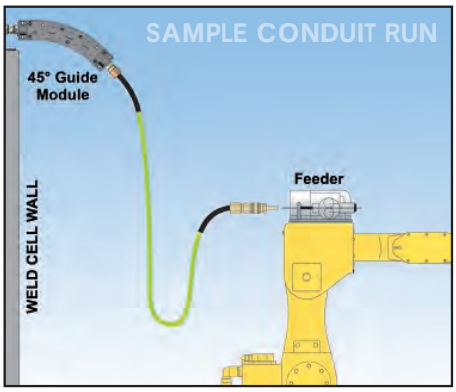
FC-E CONDUIT (EXPLODED VIEW)

P/N	DIMENSIONS	CONNECTORS
FC-E	.241 ID (6.1mm) x .440 OD (11.2mm)	See Below

FC-E CONDUIT CONNECTOR OPTIONS FOR PRE-CUT LENGTHS

Connectors are included on all pre-cut lengths

P/N	DESCRIPTION
A-16M-P1	Male connector for Wire Wizard® quick disconnect
A-16M-P2	Male connector for Panasonic style quick disconnect
A-11E-2	Swaged threaded connector for A-16M-P1 or A-16M-P2
A-11E-1A	Coupler fitting for threaded disconnects
A-11E-1B	Nut for attachment to threaded disconnects (inc. w/A-11E-1A)



FC-E Conduit in weld cell with short distance between robot and wall

FC-E PRE-CUT CONDUIT*
with Swaged Fittings & Polymer Strain Reliefs (both ends) for Wire Wizard® Disconnects

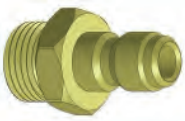
P/N	LENGTH
FCE-3.0-WW	118" – 9.8 ft (3m)
FCE-5.0-WW	197" – 16.4 ft (5m)
FCE-7.5-WW	295" – 24.6 ft (7.5m)
FCE-10.0-WW	394" – 32.8 ft (10m)

FC-E PRE-CUT CONDUIT*
with Swaged Fittings & Polymer Strain Reliefs (both ends) for Panasonic® Disconnects

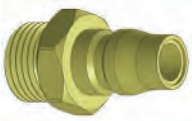
P/N	LENGTH
FCE-3.0-P	118" – 9.8 ft (3m)
FCE-5.0-P	197" – 16.4 ft (5m)
FCE-7.5-P	295" – 24.6 ft (7.5m)
FCE-10.0-P	394" – 32.8 ft (10m)

FC-E PRE-CUT CONDUIT*
with Screw-on Fittings & Polymer Strain Reliefs (both ends) for Threaded Disconnects

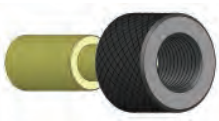
P/N	LENGTH
FCE-3.0-A	118" – 9.8 ft (3m)
FCE-5.0-A	197" – 16.4 ft (5m)
FCE-7.5-A	295" – 24.6 ft (7.5m)
FCE-10.0-A	394" – 32.8 ft (10m)



A-16M-P1
Wire Wizard® style fitting included with **-WW** pre-cut FC-E conduit



A-16M-P2
Panasonic® style fitting included with **-P** pre-cut FC-E conduit



A-11E-1A & A-11E-1B
Threaded disconnect fitting included with **-A** pre-cut FC-E conduit

Custom pre-cut lengths available, contact customer service for details.
All pre-cut lengths of FC-E conduit include polymer strain relief at both ends

CONDUIT CONNECTORS

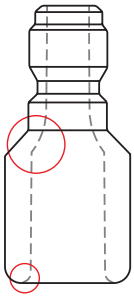
E-Z Feed™ Connectors

Polymer Conduit Connectors

EC-3-R	EC-4-R	EC-5	EC-6
A-16F-3	A-16F-4	A-16F-5	A-16F-6
A-10C-S	A-10C-H	A-10R	A-6 (or A-6HD*) & A-9
	A-10HP	A-10RP	
	A-10C-H-SR	A-10R-SR	
	A-10C-H-SRL		

**Use A-6HD if connecting to an HD style disconnect, use A-6 for all other disconnects*

All E-Z Feed™ connectors feature rounded shoulders for smooth wire feeding



Extra Flexible Conduit Connectors

FC-X	FC-XH	FC-XH-LW	FC-X-SW
A-10C-X	A-10R	A-6HD (or A-6*) & A-9	A-10C-S
A-10XP	A-10RP	A-11XH-LW	
A-10C-X-SR	A-10R-SR		
A-11X	A-11XH		
A-10C-X-SRL			

Polymer Strain Relief

Steel Spring Strain Reliefs, 10.5" & 21.5"

Polymer Conduit Connectors

EC-3-R Connectors

Part No.	Connector
A-16F-3	Self Threading (1/8" NPT-F)
A-10C-S	Compression (Ferrule)

EC-4-R Connectors

A-16F-4	Self Threading (1/4" NPT-F)
A-10C-H	Compression (Ferrule)
A-10HP*	Compression (1/4" NPT-F)
A-12A	Aluminum Compression
A-10C-H-SR	Strain Relief Connector - 10.5" (267mm)
A-10C-H-SRL	Strain Relief Connector - 21.5" (546mm)

EC-5 Connectors

A-16F-5	Self Threading (3/8" NPT-F)
A-10R	Compression (Ferrule)
A-10RP*	Compression (1/4" NPT-F)
A-10R-SR	Strain Relief Connector
A-10R-QD	Connector w/Disconnect
A-10R-QD-SR	Strain Relief w/Disconnect

EC-6 Connectors

A-16F-6	Self Threading (1/2" NPT-F)
A-6 (or A-6HD) & A-9	Combination Compression

Extra Flexible Conduit Connectors

FC-X Connectors

Part No.	Connector
A-10C-X	Compression (Ferrule)
A-10XP*	Compression (1/4" NPT-F)
A-10C-X-SR	Strain Relief Connector - 10.5" (267mm)
A-10C-X-SRL	Strain Relief Connector - 21.5" (546mm)
A-11X	Swaged Connector

FC-XH Connectors

A-10R	Compression (Ferrule)
A-10RP*	Compression (1/4" NPT-F)
A-10R-SR	Strain Relief Connector
A-11XH	Swaged Connector
A-10R-QD	Connector w/Disconnect
A-10R-QD-SR	Strain Relief w/Disconnect

FC-XH-LW Connectors

A-6HD (or A-6)/A-9	Combination Compression
A-11XH-LW	Swaged Connector

FC-X-SW Connectors

A-10C-S	Compression (Ferrule)

* For A-10HP, A-10RP & A-10XP use A-4 quick disconnect.

Legend: NPT-National Pipe Threads, M-Male, F-Female

See page 23 for replacement ferrules for compression style connectors.

RECOMMENDED CONDUIT SIZE REFERENCE TABLE

The table below shows the recommended conduit based on the wire type, size, length of run and application. When choosing the proper conduit, please keep in mind these **seven variables of wire dispensing:**

- **Type of Wire:** Such as steel, aluminum, cored steel, or silicone bronze
- **Wire Diameter**
- **Length of Run**
- **Wire Cast:** The curvature of one strand of welding wire, measured as the diameter of the circle formed by a strand laying on a flat surface
- **Wire Helix:** The distance one end of a single wire strand lying on a flat surface rises off that surface (also known as the wire "pitch")
- **Application:** Robotic or semi-automatic, number of turns
- **Drawing Compounds**

		DISTANCE & RECOMMENDED CONDUIT					
		1-10 FT (1-3 M)		11-20 FT (3-6 M)		OVER 20 FT (6 M)	
WIRE TYPE	SIZE (INCHES/MM)	STATIONARY	ROBOTIC	STATIONARY	ROBOTIC	STATIONARY	ROBOTIC
Steel	.025"/0.6 mm	EC-3-R	FC-X-SW/EC-3-R	EC-3-R	FC-X-SW/EC-3-R	EC-3-R	FC-X-SW/EC-3-R
Steel	.030"/0.8 mm	EC-3-R	FC-X-SW/EC-3-R	EC-3-R	FC-X-SW/EC-3-R	EC-4-R	FC-X/EC-4-R
Steel	.035"/0.9 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Steel	.040"/1 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Steel	.045"/1.1 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Steel	.052"/1.3 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-5	FC-XH
Steel	1/16"/1.6 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Steel	5/64"/2 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Steel	3/32"/2.4 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Steel	7/64"/2.5 mm	EC-5	FC-XH	EC-5	FC-XH	EC-6	FC-XH-LW
Steel	1/8"/3.2 mm	EC-6	FC-XH-LW	EC-6	FC-XH-LW	EC-6	FC-XH-LW
Steel	5/32"/4 mm	EC-6	FC-XH-LW	EC-6	FC-XH-LW	EC-6	FC-XH-LW
Aluminum	.025"/0.6 mm	EC-3-R*	EC-3-R	EC-3-R	EC-3-R	EC-3-R	EC-3-R
Aluminum	.030"/0.8 mm	EC-3-R*	EC-3-R	EC-3-R	EC-3-R	EC-3-R	EC-3-R
Aluminum	.035"/0.9 mm	EC-3-R*	EC-3-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R
Aluminum	3/64"/1.2 mm	EC-4-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R
Aluminum	1/16"/1.6 mm	EC-4-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R
Aluminum	3/32"/2.4 mm	EC-4-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R
Cored - Steel	.035"/0.9 mm	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X
Cored - Steel	.045"/1.1 mm	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X
Cored - Steel	.052"/1.3 mm	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X
Cored - Steel	1/16"/1.6 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Cored - Steel	5/64"/2 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Cored - Steel	3/32"/2.4 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Cored - Steel	1/8"/3.2 mm	EC-6	FC-XH-LW	EC-6	FC-XH-LW	EC-6	FC-XH-LW
Stainless	.035"/0.9 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Stainless	.045"/1.1 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Stainless	.052"/1.3 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Stainless	1/16"/1.6 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Silicon Bronze	.030"/0.8 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Silicon Bronze	.035"/0.9 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Silicon Bronze	.045"/1.1 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Silicon Bronze	1/16"/1.6 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH

**Ideal size for pushing or pulling aluminum wire*

Note: FC-E Extreme Flex conduit may also be used in many robotic applications where FC-X is listed above.

RETRACTABLE CONDUIT/CABLE BALANCERS & HANGERS

- Balancer provides easy method of hanging conduit & cables
- Conduit Hanger prevents excess droopage
- Prevents cables from hanging in areas prone to damage
- Hangers feature velcro straps to secure cables and conduit

HEAVY DUTY BALANCERS WITH SHOCK STOP
Prevents cable damage often caused by overtensioning

CONDUIT BALANCERS
Several models available, light duty (left) and heavy duty (right)

CONDUIT HANGER
3 sizes available

PART NO.	DESCRIPTION
RCH-S	Conduit Balancer - Load: 1–3½ lbs (0.5–1.6 kg)
RCH-H	Conduit Balancer - Load: 2–4½ lbs (1–2 kg)
RCH-4-6	Conduit Balancer - Load: 4–6 lbs (1.8–2.7 kg)
RCH-5-13	Conduit Balancer - Load: 5–13 lbs (2.3–6 kg)
RCH-11-19	Conduit Balancer - Load: 11–19 lbs (5–8.6 kg)
RCH-3-7-SH	Conduit Balancer with Shock Stop - Load: 3–7 lbs (1.4–3.2 kg)
RCH-5-10-SH	Conduit Balancer with Shock Stop - Load: 5–10 lbs (2.3–4.5 kg)
RCH-8-12-SH	Conduit Balancer with Shock Stop - Load: 8–12 lbs (3.6–5.4 kg)
RCH-10-15-SH	Conduit Balancer with Shock Stop - Load: 10–15 lbs (4.5–6.8 kg)
RCH-16-23-SH	Conduit Balancer with Shock Stop - Load: 16–23 lbs (7.3–10.4 kg)
RCH-22-27-SH	Conduit Balancer with Shock Stop - Load: 22–27 lbs (10–12.2 kg)
RCH-SH	Shock Stop Kit (only compatible with -SH models)
CHH-22	22" (559mm) Conduit Hanger w/four Retaining Straps
CHH-16	16" (406mm) Conduit Hanger w/four Retaining Straps
CHH-10	10" (254mm) Conduit Hanger w/two Retaining Straps

REPLACEMENT FERRULES

Choice of sizes for the right compression fit for the application

A-9-FE

A-10RFE

A-10CFE

A-10XFE

A-10SFE

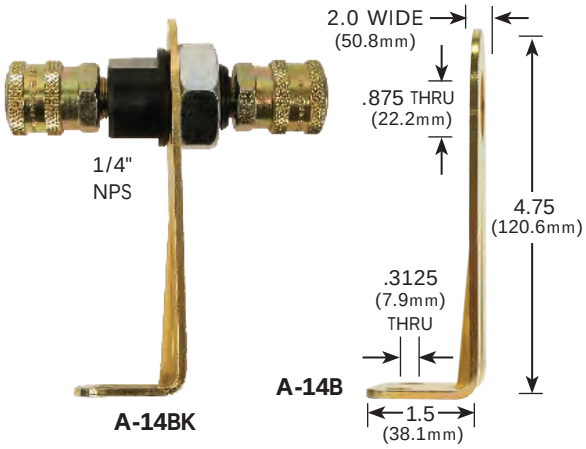
FERRULES

P/N	CONNECTORS	
A-9-FE	A-9	
A-10RFE	A-10R	A-10RP
A-10CFE	A-10C-H	A-10HP
A-10XFE	A-10C-X	A-10XP
A-10SFE	A-10C-S	

BULKHEAD CONNECTORS

A-14BK Kit

Includes **A-14** bulkhead, **A-14B** bracket and **A-4-ST** quick disconnects



A-14BK

A-14B

A-14 BULKHEAD

A-14 KIT

Kit includes **A-14** bulkhead, and **A-4-ST** quick disconnects

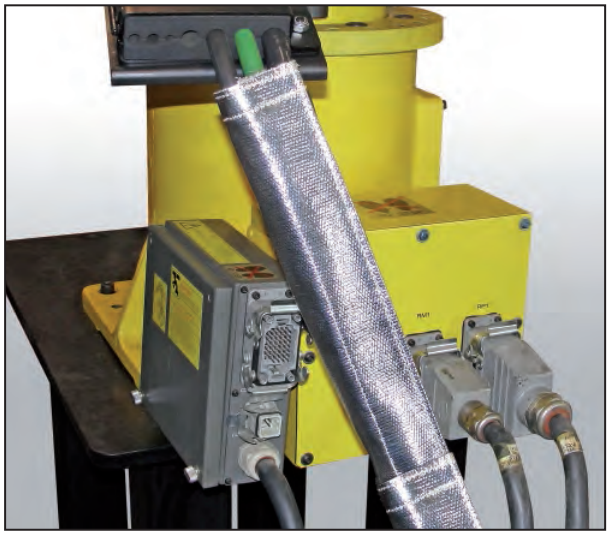
A-14KIT

A-14CM
Bulkhead Cage Mount Kit

CONDUIT & CABLE SLEEVES

Constructed from Kevlar® with a spatter-resistant aluminized or silicon coating, Wire Wizard® conduit & cable sleeves provide the maximum degree of protection inside the weld cell.

- Protects and secures conduit, control cables, cooling lines, gas lines, hydraulic hoses and other lines connected to robots
- Two I.D. sizes available - 2" (51mm) & 4" (102mm) in 1, 2, 3 & 4 ft (305, 610, 914 & 1219mm) lengths
- Use **aluminized sleeves** for high heat applications
- Velcro ends can be chain linked together
- Sleeve ends accept nylon tie straps
- Zipper + Velcro enclosure



CONDUIT & CABLE SLEEVES*

P/N	ITEM	LENGTH
KCS-2-12	2" Sleeve (51mm) I.D.	1 ft (305mm)
KCS-2-24	2" Sleeve (51mm) I.D.	2 ft (610mm)
KCS-2-36	2" Sleeve (51mm) I.D.	3 ft (914mm)
KCS-2-48	2" Sleeve (51mm) I.D.	4 ft (1.2m)
KCS-4-12	4" Sleeve (102mm) I.D.	1 ft (305mm)
KCS-4-24	4" Sleeve (102mm) I.D.	2 ft (610mm)
KCS-4-36	4" Sleeve (102mm) I.D.	3 ft (914mm)
KCS-4-48	4" Sleeve (102mm) I.D.	4 ft (1.2m)

Add -A to the part number for aluminized coating, add -S for silicon coating

Aluminized Sleeve *(add **-A** to Part #)*

Silicon Coated Sleeve *(add **-S** to Part #)*

Open sleeve showing velcro & zipper enclosure

CABLE ORGANIZERS FOR FANUC® ROBOTS

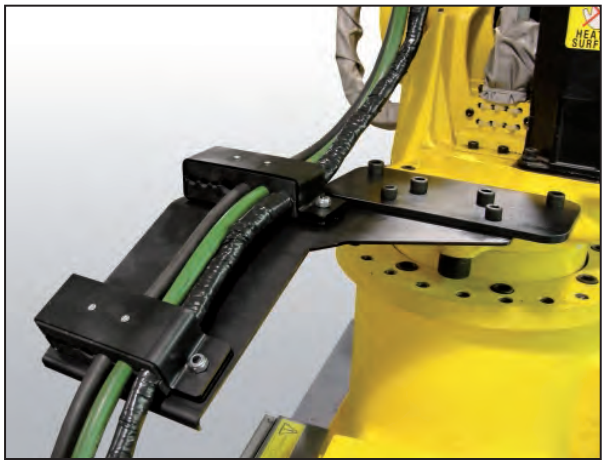
Model GMR-FCC-IC

Compatible with Fanuc ARC Mate™ 100/120iC Series Robots*

Keep your cables organized and tangle-free with Wire Wizard® Robotic Cable Organizers for Fanuc Robots.

- Secures conduit, control cables, cooling lines, gas lines, hydraulic hoses and other lines connected to robots
- Prevents kinks in hoses that cause unnecessary downtime
- Rubber clamps provide cushioning for cables, reducing stress that can cause cables to break

Please call or see website to confirm bolt pattern for other robots



ADAPTER FITTINGS

- NPT male (M) and female (F) pipe threads for optimum sealing
- Countersunk for restriction-free wire piloting

HEX NIPPLES

A-6 1/2" NPT-F
A-6HD 1/2" NPT-F (FC-XH-LW)

A-15 1/2" – 20
A-15-1 7/16" – 20
A-15-2 9/16" – 18

A-16M-ST 1/4" NPT-M

A-17 1/4" NPT-F x 3/8" NPT-M

A-18 1/4" NPT-F x 1/2" NPT-M

HEX BUSHINGS

A-19 1/4" NPT-M x 1/4" NPT-M

A-20 1/4" NPT-M x 3/8" NPT-M

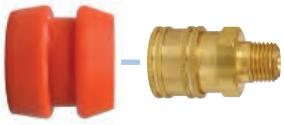
A-21 1/4" NPT-M x 1/2" NPT-M

A-23 3/8" NPT-M BSPP-M

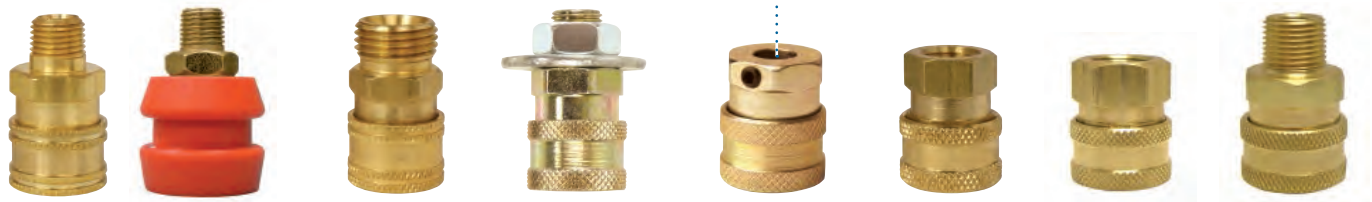
QUICK DISCONNECTS

Miller Inlet Guide

U-005 Quick Disconnect Insulator



Fits all disconnects except A-3HD & A-4HD



A-4-ST or A-4-ST-I (inc. U-005) 1/4" NPT-M
Use with Standard Inlet Gude (for brass, request **A-4 or A-4-I**)

A-5 1/2" NPS-M

A-4S 1/2" – 20 (Nut & Washer Included)

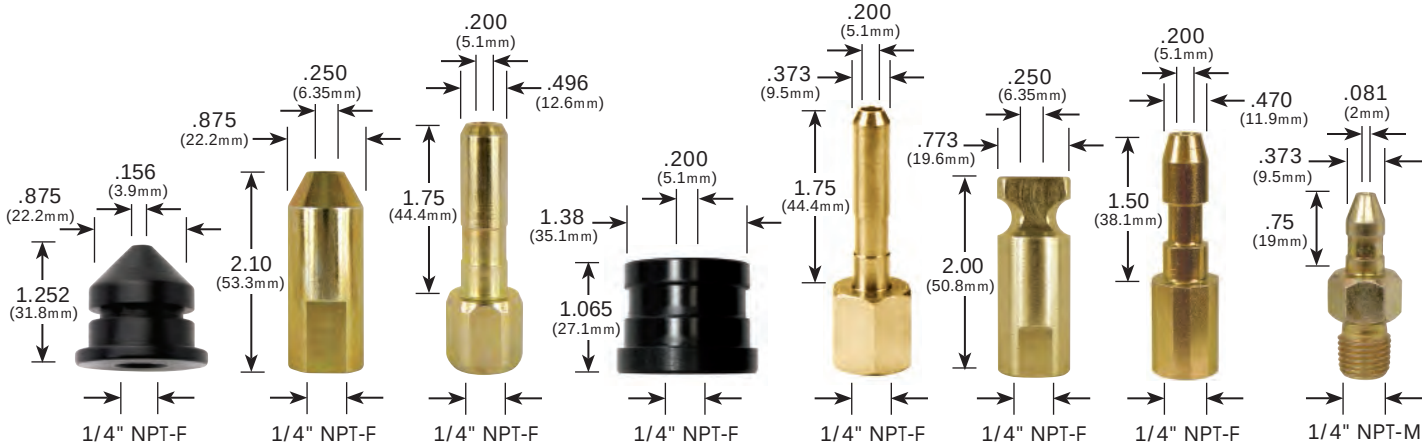
A-1A-B 3/8" Clearance for Miller Inlet Guides

A-3 1/4" NPT-F *See Below*

A-3HD 3/8" NPT-F

A-4HD 3/8" NPT-M (for FC-XH-LW)

STANDARD INLET GUIDES



1/4" NPT-F
A-2E ESAB 4-48

1/4" NPT-F
A-1E ESAB All

1/4" NPT-F
A-1H Hobart

1/4" NPT-F
A-1LN (Delrin)
A-1LN-A (Aluminum)
A-1LN-LW (Lg. Wire)
Lincoln

1/4" NPT-F
A-1M Miller

1/4" NPT-F
A-1PA Panasonic

1/4" NPT-F
A-1OTC OTC/Daihen

1/4" NPT-M
PAWFS-12 Miller (75)

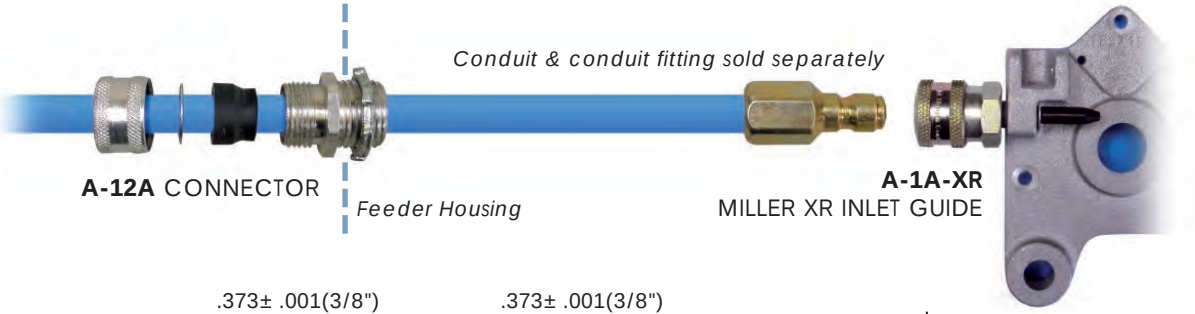
Use **A-4-ST** (1/4" NPT-M) with fittings above for quick disconnect capability or (brass **A-4** quick disconnect also available)

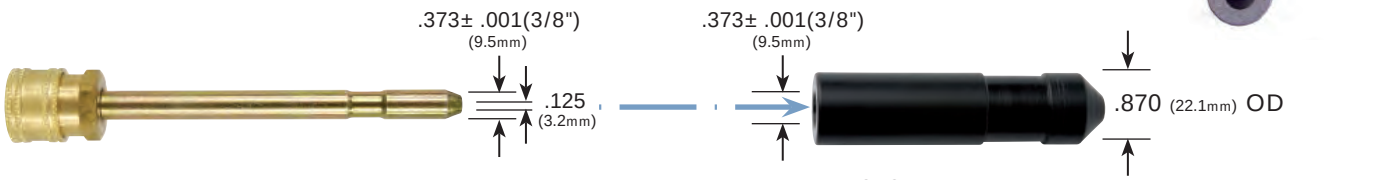
A-3 1/4" NPT-F

ADAPTERS FOR INLET GUIDES

Configurations shown are just for demonstration purposes only. Please refer to the **Cross-Reference Table** on page 28 for a complete parts listing for your particular application.

A-1A-XR-KIT
MILLER XR
FEEDER INLET KIT
Includes A-12A and A-1A-XR Inlet Guide
For aluminum wire





A-1A-4.5 QUICK DISCONNECT

A-1SKS SKS FEEDER

A-1AH330 PROBE WITH QUICK DISCONNECT

A-1MOT MOTOMAN FEEDER

UNIVERSAL INLET KIT Model A-1AK

- Five piece kit includes **A-1A** probe and four **A-7** phenolic adapter bushings for stable and durable performance
- Will support the use of a variety of wire feeders

A-1A with .373 (9.5mm) Diameter Probe (Use **A-1AK-E** for ESAB Feeders)

.375 ID (9.5mm) x .5 OD (12.7mm)	.375 ID (9.5mm) x .625 OD (15.9mm)	.625 ID (15.9mm) x .75 OD (19mm)	.625 ID (15.9mm) x .875 OD (22.2mm)

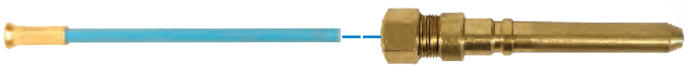
A-7 PHENOLIC ADAPTER BUSHINGS

LINCOLN ELECTRIC TWIN ARC FEEDER INLET Model A-2NA-5

> For use with Lincoln Twin Arc Feeder (disconnects sold separately)

LINCOLN SERVO INLET GUIDES

- Designed for use with Lincoln Servo Torch
- Ideal for all **aluminum & steel** applications
- Inlet guide connects to **Blue Polymer** or **Extra Flexible** conduit



A-4L-H 0.09 (2.3mm) ID EC-1

A-2LN Servo Torch Connector for EC-3 Conduit

Inlet Guide with Disconnect

A-2LN-AK-QD
Probe Length:
1.06" (27mm)

A-2LNIC-AK-QD
Probe Length:
0.834" (21mm)

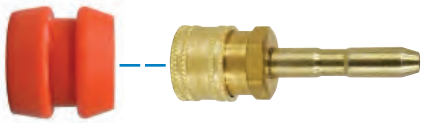
Inlet Guide without Disconnect

A-2LN-AK
Probe Length:
1.06" (27mm)

A-2LNIC-AK
Probe Length:
0.834" (21mm)

INLET GUIDES WITH QUICK DISCONNECTS

- For steel weld wire feeder and straightener applications
- Provides trouble-free interface of connections
- Quick disconnects feature eight retainer bearings



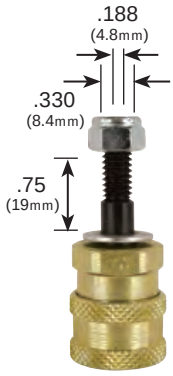
U-005 Optional Quick Disconnect Insulator

A-1A
.373(9.5mm) Probe

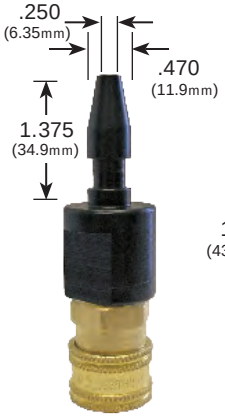
A-1A-C
.373(9.5mm) Probe
Miller Wire Feeder

A-1A-D
.373(9.5mm) Probe
Miller Wire
Feeder (Sm. Wire)

A-1A-4.5
.373(9.5mm) Probe
Miller Series 74
Wire Feeder



A-1NA-5
Lincoln NA-3
& NA-5 Feeder



A-1LN-23A
Lincoln Wire
Feeder

A-1LN-23B
Lincoln Wire
Feeder

A-2SKS
SKS

A-1FRO
Fronius Feeder

A-2FRO
Fronius Feeder

A-1FRO-B
Fronius Feeder

A-1MOT-HP
Motoman
Hyper Feeder

A-1MOT-AU
Motoman
Wire Feeder

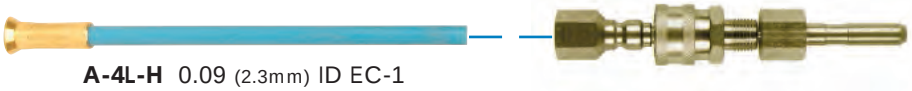
A-1B-C2
Lincoln
Synergic 7

A-1CL
Cloos

A-1OTC-FX
OTC

CONNECTOR LINERS

- Designed to line steel connectors when using aluminum and other non-ferrous metal wires
- Non-metallic to prevent abrasion and contamination



A-4L-H 0.09 (2.3mm) ID EC-1

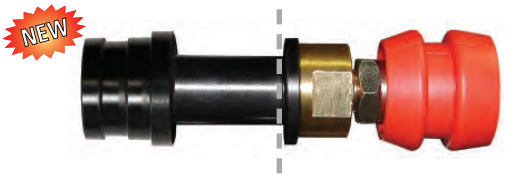
FEEDER INLET CROSS-REFERENCE CHART

FEEDER MANUFACTURER	FEEDER TYPE	WIRE WIZARD® INLET GUIDE P/N
CEA S.p.A.	ALL	A-1AK
Cebora S.p.A.	ALL	A-4S
CK Systematics	MP175 and S4165	A-4S
Cloos	Most Models	A-1CL
Cybo Robotics	Most Models	A-4S
ESAB	ALL (except 4-48)	A-1AK-E
	4-48	A-2E & A-4-ST
	Aristo 30 Series	A-4S
Fanuc	Servo Torch	A-3QDF-6 & A-23
Fronius	Feeder without Set Screw	A-1FRO-B
	Feeder with Set Screw	A-1FRO
	Feeder with Stripped Set Screw	A-2FRO
Hobart	Series 27	A-1H & A-4-ST
	Models with 3/4"-16 Thread	A-1A, A-1A-4.5
		A-1A & A-22
		A-1AH330 & A-1MOT
Kobelco	Male Threaded Inlet 1/2"-20	A-3QDF-3
Lincoln Electric	4R100	A-1LN & A-4-ST
	4R220	A-1LN & A-4-ST
	PF Series	A-1LN & A-4-ST
	LN-7, LN-9, and LN-25	A-1A
	LN-8	A-1H & A-4-ST
	NA-3 and NA-5	A-1NA-5/A-1NA-5-SW-ADP
	Synergic 7	A-1B-C2
	LF-72	A-1LN & A-4-ST
	LF-74	A-1LN-EK
	Series 10 (10M, DH-10, LN-10)	A-1LN & A-4-ST
	Servo Torch	A-2LN-AK

FEEDER MANUFACTURER	FEEDER TYPE	WIRE WIZARD® INLET GUIDE P/N
Miller	Most Models	A-1A-C, A-1M & A-4-ST, or A-1A
	22A and 24A	A-1AK
	Auto Axcess	A-1A-C
	Series 74 and R115*	A-1A-4.5 or A-1A-C
	Measure required probe length prior to ordering.	
	Series 75	PAWFS-12 & A-3
	RAD 400	A-1LN-S & A-3
	XR Series (for alum. wire)	A-1A-XR-KIT
MK Products	Cobramatic	A-1AK
Motoman	Female Inlets	A-1AH330 & A-1MOT
	Male Threaded Inlets	A-3QDF-3
	Hyper Feeder	A-1MOT-HP
OTC/ DAIHEN	Male Threaded Inlet 7/16"-20	A-3QDF-2
	Male Threaded Inlet 9/16"-18	A-3QDF-4
	FX Style	A-1OTC-FX
	D Series	A-3QDF-4
	AF4-001	A-3QDF-2
	OTC	A-1OTC & A-4-ST
Panasonic	Female Inlet: .77 OD (19.6mm)	A-1PA & A-4-ST
	Female Inlet: .57 OD (14.5mm)	A-2PA & A-3QDF-4
	Male Threaded Inlet	A-3QDF-4
Pow Con	Most Models	A-1AK
SKS	Most Models	A-2SKS
	Older Models	A-1SKS & A-1A-4.5
Thermal Arc	17A	A-1AH330 & A-1MOT

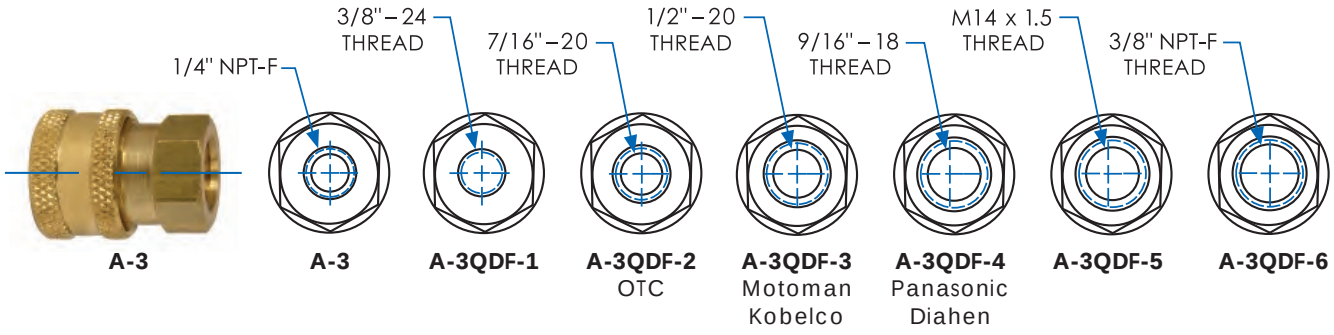
This table is intended for the use of **Wire Wizard®** customers and is provided from relevant information supplied by feeder manufacturers or their distributors who, at their discretion, reserve the right to alter product specifications or features without notice. Every effort has been made to ensure the information presented is accurate and current. If you should require further assistance please contact ELCo Enterprises, Inc.

LINCOLN ELECTRIC LF-74 FEEDER INLET GUIDE EXTENSION KIT **Model A-1LN-EK**



- Extends connection to the disconnect at the feeder
- Kit includes A-1LN inlet guide, extension adapter and quick disconnect with insulator

FEMALE THREADED QUICK DISCONNECT REFERENCE FOR INLET GUIDES



WIRE STRAIGHTENERS

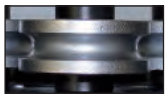
Wire Wizard® manufactures four versions of wire straighteners that can be used to straighten or recast all types of wire. The main body is constructed of aluminum, making our straighteners some of the lightest in the market. All models are equipped with a locating calibration on the face of the unit and a fine adjustment scale on the tension knob. This results in an extremely fast and accurate setting of wire cast. Our full range of fittings and inlet guides guarantee a trouble-free fit for any application or system.

SMALL WIRE STRAIGHTENERS MODELS WSS-100 & WSS-100-A

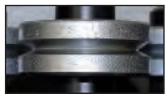
For Wire Sizes .035 to .062 *(Order WSS-100-A for Aluminum Wire)*

Dimensions: 3.74" W x 3" H x 1.63" D (95mm W x 78mm H x 41.3mm D)

Weight: 1 lb (0.45 kg)



WSS-100 Drive Rolls
U-Groove Drive Rolls for Steel Wire



WSS-100-A Drive Rolls
V-Groove Drive Rolls for Aluminum Wire

INSULATED MOUNTING KITS

Available for all models

WSS-100-IK Small
WSM-100-IK Medium
WSL-100-IK Large

SMALL WIRE STRAIGHTENER FITTINGS*

NON-THREADED FITTINGS

Connection to disconnect, on feeder or in-line

Steel Wire: A-1QD-12 or **A-1QD-5/32** *(for large wire)*

Connection to disconnect, on feeder or in-line

Aluminum Wire: A-1QD-5/32 & **A-4L-H** liner

End View

WIRE

Steel or Aluminum Wire: A-1C-S-12 Delrin with ceramic inlet

WSS-100
Steel Wire Straightener
or
WSS-100-A
Aluminum Wire Straightener

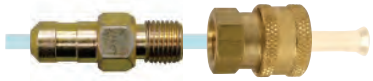
***Fittings may be used as inlets or outlets depending on setup**

THREADED FITTINGS

A-3 Quick Disconnect

Steel Wire: A-1LN-S-12 or **A-1LN-S-5/32** *(for large wire)*

A-3 Quick Disconnect



Aluminum Wire: A-1LN-S-5/32 & **A-4L-H** liner

MEDIUM WIRE STRAIGHTENER

MODEL WSM-100

For Wire Sizes .062 to 3/32" (1.6 - 2.4mm)

Dimensions: 5.71" W x 3.34" H x 1.875" D (145mm W x 84.7mm H x 47.63mm D)

Weight: 1.75 lbs (0.8 kg)

FITTINGS FOR WSM-100

Order **A-1LN-K** for Inlet/Outlet Kit *(includes two A-1LN's)*

A-16M-ST
Attaches to QD

A-4 Quick Disconnect

A-1LN Inlet Guide

LARGE WIRE STRAIGHTENER

MODEL WSL-100

For Wire Sizes 3/32" (2.4mm) & Larger

Ideal for heavy duty SAW applications

Dimensions: 8.66" W x 4.09" H x 2.25" D (220mm W x 103.8mm H x 57.2mm D)

Weight: 4 lbs (1.8 kg)

FITTINGS FOR WSL-100

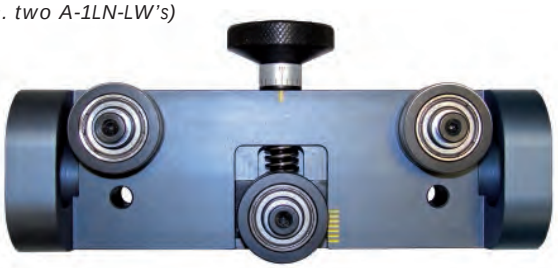
Order **A-1LN-K-LW** for Inlet/Outlet Kit *(inc. two A-1LN-LW's)*

WS-10S
Outlet Adapter for Lincoln 10S Feeder (Inlet Adapter pt. # **WS-LW**), inc. ceramic

A-16M-ST-HD
Attaches to QD

A-4HD Quick Disconnect

A-1LN-LW Inlet Guide



WIRE PILOT® PNEUMATIC WIRE FEED ASSIST

An economical way to help your wire feeder move wire through the conduit in applications where the use of large diameter wire or long conduit runs is needed. Works with ferrous and non-ferrous wire. Using only compressed air, this unit can relieve 4 pounds or more of pulling force from the feed motor. Adjustable torque setting prevents "bird nesting." Replacement drive rolls available. *Patented design.*

- **Eliminates drag coefficient inside the conduit**
- Provides "Push-Pull" system to get wire from source to the feeder
- Extends conduit life & increases arc-on time
- New & improved design features new robust motor for up to 3/16" (4.8mm) wire and enclosure designed for better accessibility
- Enables longer conduit runs (150 ft/46m+), enabling centrally located wire packages as well as allowing the use of bulk wire in many applications that would normally require small spools
- Prevents burn backs caused by wire feeding problems
- Solves many common feeding issues with large diameter wire
- Adapts to other wire dispensing equipment including the Mechanical Turn Table, Non-Stop™ Dispensing System and the Wire Wizard® Guide Module System

WGM-PFA-STAND
Adjustable Stand for up to 4 Drums, Spools or Wood Reels Adjusts to 86" (2.2m)
Inc. 1 arm, additional arms sold separately

WGM-PFA-STAND-4
Spool option for WGM-PFA-STAND

PFA-WM Remote Mounting Bracket
For surface mounting

PFA DRIVE ROLLS
(sold individually)
All PFA drive rolls are **hard chromed & polished** for maximum performance and durability.

WIRE PILOT® FEED ASSIST & ACCESSORIES

ITEM	PART NO.
Wire Pilot® Feed Assist for wire up to 3/16"(4.8mm), inc. Filter/Reg./Lubricator	PFA-LM-15
Inlet Guide with 1/2"-14 NPS Threads	PFA-WT-32
Quick Disconnect with 1/2"-14 NPS Threads (for PFA-WT-32)	A-5
Quick Disconnect with 1/2"-14 NPS Threads (for FC-XH-LW conduit)	A-5HD
Inlet Guide w/Ceramic Inlet	PFA-35-15
Drum Adapter for Wire Pilot® Feed Assist	PFA-DA
Turn Table Adapter Kit for Wire Pilot® Feed Assist	PFA-WWTT
Adjustable Wire Pilot® Feed Assist Stand for Drums or Spools	WGM-PFA-STAND
Additional Arm for Wire Pilot® Feed Assist Stand	WGM-PFA-STAND-ARM
Wire Spool Holder for Wire Pilot® Feed Assist Stand	WGM-PFA-STAND-4
Wire Pilot® Swivel Kit for Wire Guide Modules *(see pages 14-17)*	WGM-PFA-SW-15
24-volt Pneumatic Solenoid with Cable	PFA-SK
Wire Retract Kit for Reversing Wire Feed (24-volt)	PFA-RK
Wire Pilot® Dual Mount Bracket	PFA-DM
Wire Pilot® Remote/Wall Mounting Bracket	PFA-WM
Wire Pilot® Pivoting Extension Arm Bracket	PFA-WM-EA

DRIVE ROLLS FOR WIRE PILOT® FEED ASSIST

Feed Assist Drive Roll for .035" (.9mm) wire	PFA-DR-035
Feed Assist Drive Roll for .045" (1.2mm) wire	PFA-DR-045
Feed Assist Drive Roll for .052" (1.3mm) wire	PFA-DR-052
Feed Assist Drive Roll for 1/16" (1.6mm) wire	PFA-DR-1-16
Feed Assist Drive Roll for 5/64" (2.0mm) wire	PFA-DR-5-64
Feed Assist Drive Roll for 3/32" (2.4mm) wire	PFA-DR-3-32
Feed Assist Drive Roll for 1/8" (3.2mm) wire	PFA-DR-1-8
Feed Assist Drive Roll for 5/32" (4.0mm) wire	PFA-DR-5/32
Feed Assist Drive Roll for 3/16" (4.8mm) wire	PFA-DR-3/16

Contact customer service for parts compatible with older Feed Assist models

WIRE PILOT® ALL ENVIRONMENT FEED ASSIST

The new **Wire Pilot® All Environment Wire Feed Assist** has all the features and benefits of the original Wire Feed Assist with a weatherproof, heavy duty housing and fittings. Suitable for outdoor or indoor applications requiring protection from the operating environment. Uses same drive rolls as the standard Feed Assist. *Patented design.*

- **Ideal for use in shipyards, outdoor fabrication and other applications subject to extreme conditions**
- **Allows for the use of bulk wire** in applications normally requiring spools on carts, resulting in significant cost savings on wire
- Enables longer conduit runs
- Eliminates drag coefficient inside the conduit
- Extends conduit life & increases arc-on time
- Compatible with .035 to 5/32" (1-4mm) ferrous or non-ferrous wire

PFA-WT Feed Assist Mounted on Drum Hood

ALL ENVIRONMENT DRUM CART PACKAGE

- Includes cart with all terrain wheels or fork pockets, weatherproof fittings and drum cover
- Portable – 27" x 34.5" (686 x 876mm) footprint
- Powder coated, all steel construction
- For 20 to 21" round drums
- Package may be customized for your welding application, contact customer service for details

PFA-WT-DS Drum Package with Fork Pockets

Ideal for Shipyards! and other outdoor applications

PFA-WT-DC Drum Cart Package with Wheels

ITEM	PART NO.
Wire Pilot® All Environment Feed Assist	PFA-WT
All Environment Feed Assist Drum Hood Mounting Kit	PFA-WT-DA
All Environment Drum Cart Package, includes wheels	PFA-WT-DC
All Environment Drum Cart Package, inc. fork lift pockets	PFA-WT-DS
All Environment Wire Feed Assist Inlet Kit	PFA-WT-IK
All Environment Direct Pull Kit	WWDP-WT

QUICKDRAW PORTABLE WIRE FEED ASSIST

Model WP1000

The QuickDraw Portable Wire Feed Assist is designed to speed up the process of threading wire from the source to the feeder. Simply attach the unit on top of the wire drum or reel and use the included hand crank or a cordless drill (18v) to feed wire. *Patented design.*

- Blazing fast wire feeding – 50 feet (15m) in less than 10 seconds!
- Accommodates .035 to .125 (1-3.2mm) wire diameters
- Changeable drive rolls (compatible with Wire Pilot drive rolls on page 30)
- May be used with a cordless or standard drill for operation (drill attachment included) or hand crank

WELDERS CAN FEEL, HEAR & SEE THE DIFFERENCE!™

POWERBALL™ TIPS & DIFFUSERS

LONG LIFE
OUTLASTS OTHER TIPS BY UP TO 5X+!*

MADE IN U.S.A.

See our Wizard Torch Products catalog for full selection of Tips, Nozzles & Diffusers available

PowerBall™ Torch Tips & Diffusers provide a copper-to-copper-to- copper assembly for maximum conductivity and performance. The torch tip seats firmly in a copper insert within the diffuser with a smooth elliptical end. Traditional tip designs lose conductivity at this connection point since they are typically flat or tapered. Boost the power of your torch with PowerBall™ Tips & Diffusers! *Patent pending design.*

- **Better conductivity** creates a longer lasting, high performance tip with additional **energy saving** benefits
- **Gas distribution & cooling chamber** in the PowerBall™ diffuser provides optimum cooling and prevents gas flow turbulence
- **Buttress threads** provide high torque & more contact surface
- Fully rounded PowerBall™ tips help **prevent spatter build-up and burn backs**
- **Tips, diffusers and nozzles available for all major torch manufacturers**

Five PowerBall™ Tip Styles Available for all wire sizes up to .062 (1.6mm)

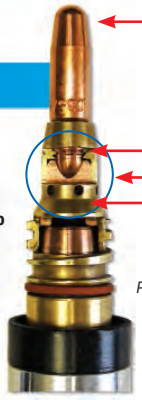
38mm PowerBall™ Tip (PB-1)

30mm PowerBall™ Tip (PB-2)

38mm Heavy Duty/ High Amp. PowerBall™ Tip (PB-3)

30mm Heavy Duty/ High Amp. PowerBall™ Tip (PB-4)

38mm PowerBall™ Tip for small torch nozzles (PB-5)



PowerBall™ Rounded Contact Tip Helps Prevent Burn Backs

High Torque Buttress Threads

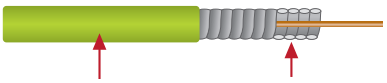
PowerBall™ Tip Assembly

Gas Distribution and Cooling Chamber with Energy Saver Insert

PATENT PENDING

Sample Tip & Diffuser Assembly Torch Design will Vary

E-POWER™ TORCH LINER



Extended outer jacket minimizes gas loss

Helically wound elliptical wire liner
PATENT PENDING

PATENT PENDING ELLIPTICAL WIRE

MADE IN U.S.A.

E-Power™ Torch Liners are designed to provide superior feedability with a low skid friction. The spring liners are made with a helically wound **elliptical wire** with a proprietary coating that both reduces friction and eliminates wire shaving. The result is a durable, long lasting liner that reduces costly downtime caused by wire feeding issues. *Patent pending design.*

- Patent pending **Elliptical Wire Liner** with proprietary coating reduces skid friction and eliminates wire shaving
- **Long life** due to less friction and reduced wear
- Durable outer jacket extends 60” (1524 mm) to **minimize gas loss**
- **Color coded** heat shrink for easy identification by wire size
- **Liners available for all major domestic and imported torch manufacturers**

***Results with complete Wire Wizard® wire dispensing equipment setup. Consumable life will vary based on welding application.**

◄*Scan here for the complete brochure on our line of high performance torch consumables*

Trial packages available. Contact customer service (517) 782-8040 for details.

BLUE MAGIC® ANTI-SPATTER & NOZZLE CLEANER

A cost effective, environmentally safe product, this new generation of anti-spatter provides superb performance even in high temperature applications. Biodegradable formula contains no harmful chemicals and is noncombustible. And, because it contains one of the lowest water contents available, ***you get protection, not water***.

- Surfactants provide excellent wetting & lubricity in torches
- Protects against spatter build-up & char residue
- Keeps clean-ups to a minimum
- Contains no silicone—easily painted over
- Low pH level inhibits multi-metal corrosion
- Will not evaporate, keeping lines & nozzles clog-free
- Contains biocide, providing longer shelf life in warm climates
- **Now available in concentrated form in 5 gallon buckets!** *1 bucket makes 55 gal. anti-spatter, ideal for overseas shipping*

Drum Pump & Drum Wrench for 55 Gal.

Blue Magic®

ITEM	PART NO.
32 OZ Spray Bottle	EAS1000-C32
1 GAL Bottle	EAS1000-C1
5 GAL Container	EAS1000-C5
55 GAL Drum	EAS1000-C
5 GAL Concentrate	EAS1000-C-CON
Manual Drum Pump (55 gal)	EAS1000-DP
Drum Wrench (55 gal)	EAS1000-DW

BLUE MAGIC® HD HIGH DUTY CYCLE ANTI-SPATTER

Introducing our toughest anti-spatter yet! The new Blue Magic® HD anti-spatter is specially formulated for extremely high temperature, long duty cycle applications.

- Special formula provides maximum protection
- Will not evaporate, even under conditions with extreme heat
- Reduces downtime for clean-ups in long duty cycle applications that generate extreme heat and excessive spatter

NEW

Blue Magic® HD

ITEM	PART NO.
32 OZ Spray Bottle	EAS1000-HDC32
1 GAL Bottle	EAS1000-HDC1
5 GAL Container	EAS1000-HDC5
55 GAL Drum	EAS1000-HDC

BLUE CHILL® ANTI-SPATTER & NOZZLE CLEANER

Increase weld productivity with this specially blended formula that not only protects surfaces from spatter, slag, and scale but also **quickly cools down hot nozzles**! No mixing required.

- Extends nozzle and contact tip life
- Remains stable and will not evaporate
- Environmentally safe, non-toxic, biodegradable

Blue Chill®

ITEM	PART NO.
32 OZ Spray Bottle	EAS1000-BC32
1 GAL Bottle	EAS1000-BC1
5 GAL Container	EAS1000-BC5
55 GAL Drum	EAS1000-BC

WIZARD SHIELD™ REFILLABLE SPRAY CAN

The Wizard Shield™ Metal Protectant Spray Can is a refillable and rechargeable sprayer that is designed to apply **Blue Magic®** or **Blue Chill®** Anti-Spatter Solution. This heavy duty spray can is easy to refill and recharges quickly using only compressed air – no CO2! A cost effective and environmentally friendly alternative to disposable aerosol cans.

EAS1000-EAD
Refillable Spray Can (16 oz.)

Anti-spatter samples available upon request

5-GALLON MANIFOLD KIT Model 5GMK

This popular industrial size also dispenses **Blue Magic®** or **Blue Chill™** anti-spatter to **Torch Wizard™** pneumatic reamers and nozzle mist applicators. Easily integrated into any weld cell stations.

- Smaller footprint is ideal where space is an issue
- Pneumatic pump supplies 1.92 gallons per minute at 75PSI
- Bulk dispensing system easily supplies up to 15 work stations

Specifications

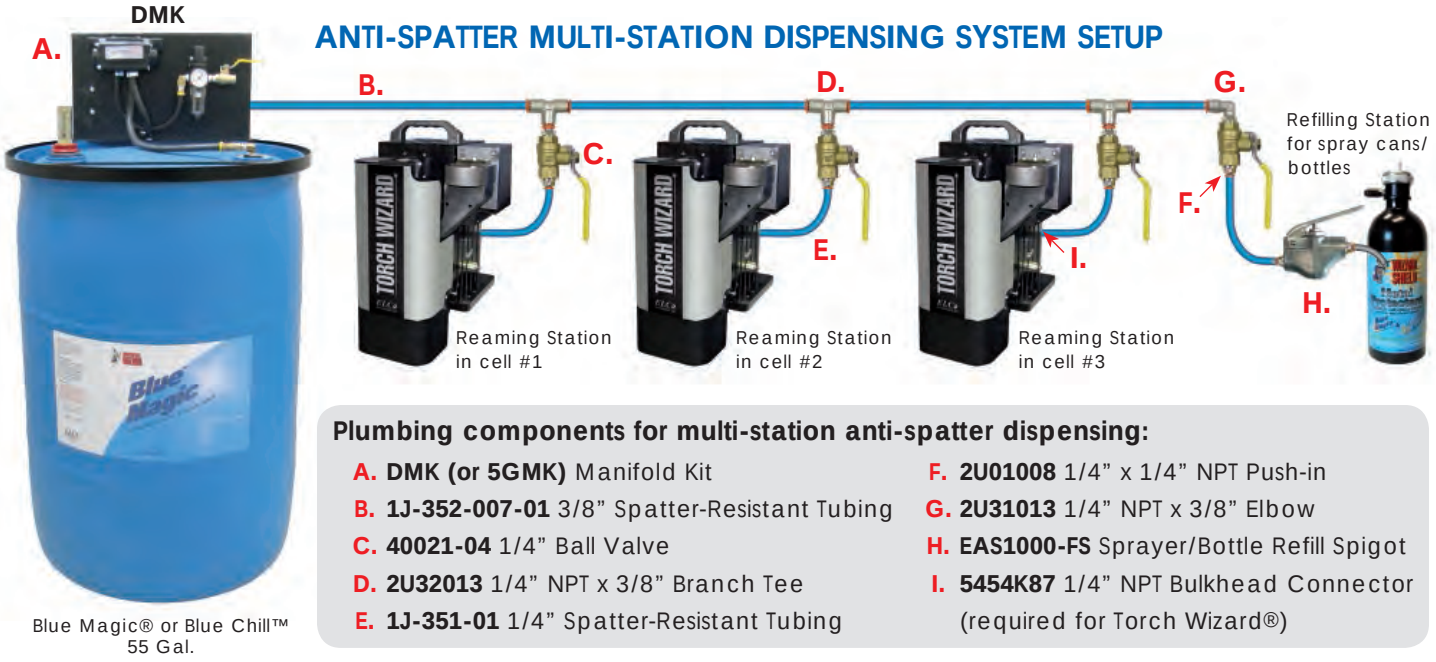
Height: 27" (685.8mm) Width: 11.25" (285.7mm)
Depth: 14" (355.6mm) Weight: 8 lbs (3.6kg)

5GMK

DRUM MANIFOLD KIT Model DMK

Designed to deliver bulk **Blue Magic®** or **Blue Chill™** anti-spatter to multiple **Torch Wizard™** nozzle cleaning and/or spraying stations, eliminating the need to refill small, gravity fed containers on a frequent basis. **Optional gauge** monitors fluid level for easier maintenance. Easy to install.

- Lowers operating costs by allowing the use of bulk anti-spatter, reduces downtime for refilling
- Supplies anti-spatter to multiple stations with pneumatic pump (pumps up to 1.92 gal. per min. at 75PSI)
- Less space required due to one feeding source



Blue Magic® or Blue Chill™ 55 Gal.

Plumbing components for multi-station anti-spatter dispensing:

- **A. DMK (or 5GMK)** Manifold Kit
- **B. 1J-352-007-01** 3/8" Spatter-Resistant Tubing
- **C. 40021-04** 1/4" Ball Valve
- **D. 2U32013** 1/4" NPT x 3/8" Branch Tee
- **E. 1J-351-01** 1/4" Spatter-Resistant Tubing
- **F. 2U01008** 1/4" x 1/4" NPT Push-in
- **G. 2U31013** 1/4" NPT x 3/8" Elbow
- **H. EAS1000-FS** Sprayer/Bottle Refill Spigot
- **I. 5454K87** 1/4" NPT Bulkhead Connector (required for Torch Wizard®)

ANTI-SPATTER BOWL Model LJ-007

The **Anti-Spatter Bowl** prevents spilling and the need for constant refills. Using a 32 oz. bottle, gravity feeds the solution as needed. Perfect for nozzle dipping in manual/robotic applications.

HAND-HELD SPRAYER Model TS-H-12

Designed for spot-spray applications of **Blue Magic®** or **Blue Chill™** anti-spatter, this hand-held spray gun is ideal for coating "weld zone" areas. Can be used with our bulk dispensing kits.

TS-H-12

TORCH WIZARD® NOZZLE CLEANING STATION

Torch Wizard® Automatic Robotic Nozzle Cleaning Stations assist in maintaining quality and productivity in your MIG welding cell by quickly and efficiently removing spatter build-up in the gas nozzle. Anti-spatter is applied evenly through two spray nozzles, allowing for reaming & spraying simultaneously, reducing cycle time by 50%! **Two year warranty with exclusive use of Blue Magic® / Blue Chill® anti-spatter. See page 38 for full parts list.**

Product Features

- **Extends torch consumable life by removing spatter build-up**
- Sprays & reams simultaneously, **reducing cycle time by 50%**
- Clog-free anti-spatter sprayers evenly coat nozzle & tip
- **High torque motor** prevents stalls, reducing downtime
- **DeviceNet or EtherNet capable** (with option)
- Model for external valve bank is easily connected and controlled by existing pneumatic manifold, eliminating the need for duplicate relay circuits (model EL-NCS-AVC-EV-12, inc. cutter, sprayer and 25 ft / 7.6m pneumatic hose bundle)
- Ability to spray anti-spatter only without reaming every time
- Adjustable v-block with four points of contact on the nozzle
- Enclosed operating environment keeps weld cell clean
- **TiN coated reamer blades** offer efficiency and longevity
- Laser nozzle presence detection option does not use mechanical parts that can often break or malfunction
- Pneumatic Wire Cutters & Tool Center Points available as options
- Economical all-pneumatic station also available (see page 36)

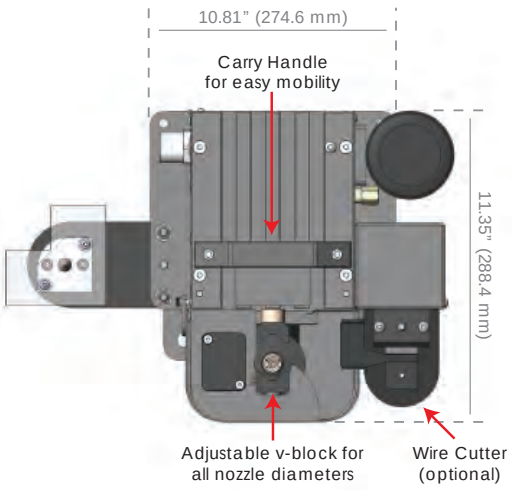
NOTE: Each base unit requires a reamer bit (based on I.D. of gas nozzle being used) and power/control cable. Required FRL is available for purchase.

EL-NCS-AC-14
TORCH WIZARD™ with integrated anti-spatter spray unit & wire cutter

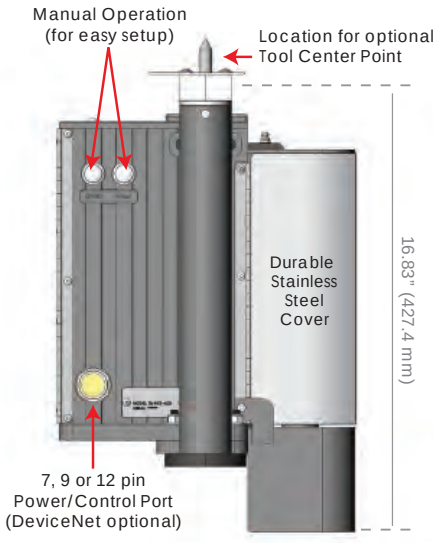
EL-NCS-AVC-EV-12
TORCH WIZARD™ for external valve bank controlled by existing air manifold on controller
(cover removed)

Torch Wizard® Specifications

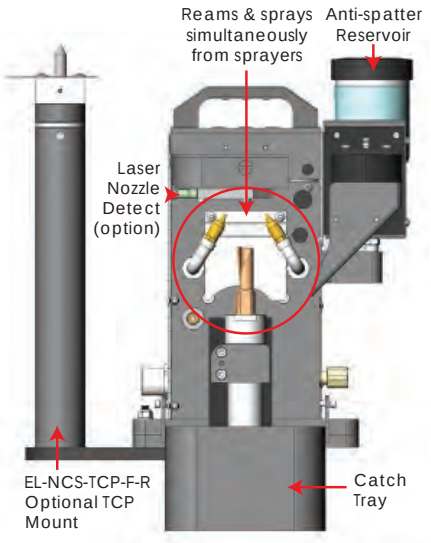
TOP VIEW



SIDE VIEW



FRONT VIEW (W/O COVER)

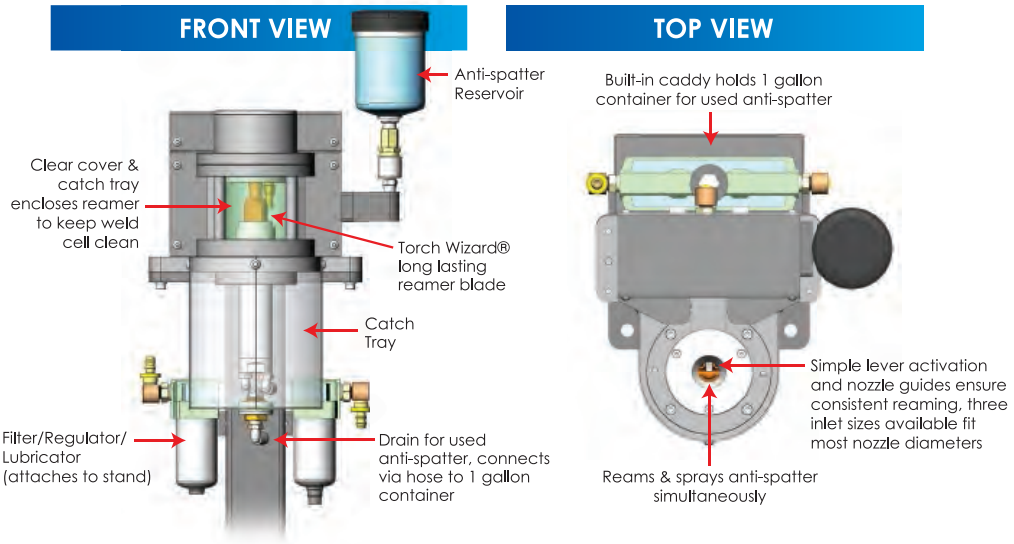


EL-NCSP-A
Shown with EL-NCSP-STAND option

TORCH WIZARD® AP All PNEUMATIC REAMING STATION
Models EL-NCSP, EL-NCSP-A & EL-NCSP-AC

The new **Torch Wizard® AP** Nozzle Cleaning Station features reliable all pneumatic operation, making setup and operation a breeze! Three nozzle inlets are available to accommodate virtually all torch sizes, and adjustable nozzle guides ensure consistent reaming every time. An enclosed operating environment with catch tray and drain keeps the weld cell clean. The built-in caddy holds a one gallon container for used anti-spatter. **Two year warranty with exclusive use of Blue Magic® / Blue Chill® anti-spatter.**

- **All pneumatic operation,** ideal for either robotic or hand-held welding applications
- Three inlet sizes with adjustable guides for nozzles up to 1 1/16" (27mm) in diameter
- Sprays & reams simultaneously, **reducing cycle time by 50%**
- Enclosed operating environment keeps the weld cell clean
- Available with or without anti-spatter sprayer or optional wire cutter


FRONT VIEW
TOP VIEW
Anti-spatter Reservoir
Clear cover & catch tray encloses reamer to keep weld cell clean
Torch Wizard® long lasting reamer blade
Catch Tray
Filter/Regulator/ Lubricator (attaches to stand)
Drain for used anti-spatter, connects via hose to 1 gallon container
Built-in caddy holds 1 gallon container for used anti-spatter
Simple lever activation and nozzle guides ensure consistent reaming, three inlet sizes available fit most nozzle diameters
Reams & sprays anti-spatter simultaneously

EL-NCS-A-TA-13
TANDEM ARC CLEANING STATION

TORCH WIZARD® TA TANDEM ARC REAMING STATION
Model EL-NCS-A-TA-13

The **Torch Wizard™ TA Tandem Arc** Nozzle Cleaning Station is specially designed for removing spatter build-up in tandem arc torches. Anti-Spatter is applied via the dual sprayers allowing reaming and spraying simultaneously for shorter cleaning cycles and higher part production. **Two year warranty with use of Blue Magic® / Blue Chill™ anti-spatter.**

- Quickly and effectively cleans both tips on tandem arc torches, requiring only a simple rotation of the torch to ream each side
- Nozzle clamp designed specifically for securing twin arc torches
- Includes all the same features and uses the same reamer blades as the single Torch Wizard™ Nozzle Cleaning Station

See page 38 for full parts list

TORCH WIZARD® REAMER BLADES

TITANIUM NITRIDE
TiN Coated for Maximum Durability

Made from alloy tool steel and coated with titanium nitride (TiN) for enhanced durability, our reamer blades maintain their sharp cutting edge and resist breakage. Blades are universal and can also be adapted to other major reaming station manufacturers. Sizes for all nozzle IDs & lengths available (see table on page 38).

- **TiN coating increases blade life**
- Single and double flute blades available in a variety of sizes for compatibility with all torch nozzle styles
- Cost effective replacement blades available for other reaming station manufacturers

SINGLE FLUTE REAMER BLADES

DOUBLE FLUTE REAMER BLADES

INTEGRATED WIRE CUTTER
Included on AC and ACD Models

- Provides simple, automated way to cut wire sizes from .035 to .062
- Consistent wire stick-out provides accurate wire location
- Robust, two-sided hardened steel blade offers maximum wear resistance and extended life
- Fully integrated with the AC and ACD model reaming stations, no additional air or power cables required (except on the EL-NCSP-AC all pneumatic reamer, which requires 24v power)

Torch Wizard® Wire Cutter
Features reversable hardened steel blade for long cutting life. Included with AC & ACD models.

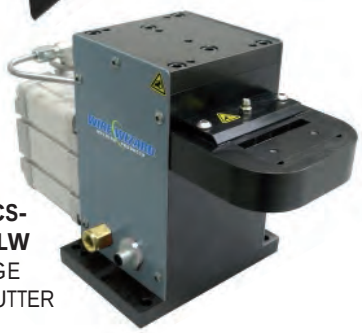
STAND ALONE WIRE CUTTER
Model EL-NCS-WCS-SA-12

- Provides simple, automated way to cut wire sizes from .035 to .062
- Consistent wire stick-out provides accurate wire location
- Robust, two-sided hardened steel blade offers maximum wear resistance and extended life
- Compact size allows mounting in the ideal location inside weld cell
- Requires 24v power and standard 80-100 psi air supply

EL-NCS-WCS-SA-12 WIRE CUTTER (Stand Alone Model)

LARGE DIAMETER AND TANDEM WIRE CUTTER
Model EL-NCS-WCS-LW (order EL-NCS-WCS-LW-1 for no valving)

- Cleanly cuts wire as thick as 3/16" (4.8mm) or up to two 5/32" (4mm) wires simultaneously
- Allows long angle cuts for smoother arc starts
- Robust, two-sided O-1 hardened steel blade offers maximum wear resistance and extended life
- Requires 24v power and standard 80-100 psi air supply



EL-NCS-WCS-LW LARGE WIRE CUTTER

See page 38 for full parts list

STANDS AND TCP ADAPTERS

EL-NCS-TCP
Tool Center Point (TCP)

EL-NCS-TCP-F
FANUC TCP ADAPTER
(excludes touch plate/point)

EL-NCS-TCP-F-S
Stand for Tool Center Point
(excludes touch plate & point)

EL-NCS-STAND
36" (914mm) Stand for Torch Wizard®
*Order **EL-NCSP-STAND** for AP Model*

TESTING & DIAGNOSTIC BOX

Model EL-NCS-TB

The Torch Wizard® Reaming Station Test Box is a recommended maintenance peripheral for periodically testing and fine tuning your reaming station. Functions include: Sink/Source, Motor Slide Up/Down, Nozzle Clamp, Anti-spatter Spray, Wire Cutter. Includes 110v AC unit and both a 7 & 9 pin cable.

TORCH WIZARD® CLEANING STATIONS FULL PARTS LIST

ITEM	PART NO.
Reaming Station w/integrated anti-spatter spray	EL-NCS-A-14
Reaming Station w/integrated anti-spatter spray & wire cutter	EL-NCS-AC-14
Reaming Station w/integrated anti-spatter spray & laser nozzle presence detector	EL-NCS-AD-14
Reaming Station w/integrated anti-spatter spray, wire cutter & laser nozzle presence detector	EL-NCS-ACD-14
Reaming Station for external valve bank, sprayer & cutter controlled by existing air manifold, inc. 25 ft (7.6m) hose bundle	EL-NCS-AVC-EV-12
Reaming Station (TA) for Tandem Arc Torches, w/anti-spatter sprayer	EL-NCS-A-TA-13
All Pneumatic Station (AP), reamer only (specify nozzle diameter)	EL-NCSP
All Pneumatic Station (AP) with anti-spatter sprayer (specify nozzle diameter)	EL-NCSP-A
All Pneumatic Station (AP) with anti-sprayer & wire cutter (specify nozzle dia.)	EL-NCSP-AC
36" (914mm) Stand (custom heights available) for EL-NCS models	EL-NCS-STAND
36" (914mm) Stand (custom heights available) for EL-NCSP models	EL-NCSP-STAND
Filter/Regulator/Lubricator	EL-NCS-FRL-14
Testing and Diagnostic Box for EL-NCS Models	EL-NCS-TB
Tool Center Point	EL-NCS-TCP
Stand for Tool Center Point - 44.9" H (1141mm) from base to point	EL-NCS-TCP-F-S
Tool Center Point Mount (attaches to reaming station stand)	EL-NCS-TCP-F-R
Fanuc Tool Center Point Adapter	EL-NCS-TCP-F
Wire Cutter (included on AC & ACD)	EL-NCS-WCS-12
Stand Alone Wire Cutter	EL-NCS-WCS-SA-12
DeviceNet Option	EL-NCS-ACD-DN
EtherNet Option	EL-NCS-ACD-EN
7 Pin, 20 ft Power/Control Cable	EL-NCS-CC7-20-3
9 Pin, 20 ft Power/Control Cable	EL-NCS-CC9-20-3

TORCH WIZARD™ REAMER BLADES

ITEM	DIA	FLUTES	THREAD	HEIGHT	PART NO.
Reamer Blade	13mm	2	Female	2.558"	EL-NCS-13MM
Reamer Blade	13mm	1	Female	2.687"	EL-NCS-TL-13MMF
Reamer Blade	13mm	1	Female	2.433"	EL-NCS-TS-13MMF
Reamer Blade	15mm	2	Female	2.558"	EL-NCS-15MM
Reamer Blade	1/2"	2	Female	2.558"	EL-NCS-500
Reamer Blade	1/2"	1	Female	2.687"	EL-NCS-TL-50F
Reamer Blade	1/2"	1	Female	2.433"	EL-NCS-TS-50F
Reamer Blade	5/8"	2	Female	2.558"	EL-NCS-625
Reamer Blade	5/8"	1	Female	2.687"	EL-NCS-TL-62F
Reamer Blade	5/8"	1	Female	2.433"	EL-NCS-TS-62F
Reamer Blade	3/4"	2	Female	2.558"	EL-NCS-750
Reamer Blade (AP Model)	1/2"	2	Female	2.558"	EL-NCS-500-A
Reamer Blade (AP Model)	5/8"	2	Female	2.217"	EL-NCS-625-A
Reamer Blade (AP Model)	15mm	2	Female	2.558"	EL-NCS-15MM-A

MALE THREADED REAMER BLADES *FOR OTHER REAMING STATIONS*

Reamer Blade	13mm	1	Male (3/8"-24)	2.433"	EL-NCS-TS-13MM
Reamer Blade	1/2"	2	Male (3/8"-24)	2.558"	EL-NCS-50-M
Reamer Blade	1/2"	1	Male (3/8"-24)	2.687"	EL-NCS-TL-50
Reamer Blade	1/2"	1	Male (3/8"-24)	2.433"	EL-NCS-TS-50
Reamer Blade	1/2"	1	Male (3/8"-24)	2.437"	EL-NCS-TML-50
Reamer Blade	5/8"	2	Male (3/8"-24)	2.558"	EL-NCS-625-M
Reamer Blade	5/8"	1	Male (3/8"-24)	2.687"	EL-NCS-TL-62
Reamer Blade	5/8"	1	Male (3/8"-24)	2.433"	EL-NCS-TS-62
Reamer Blade	5/8"	1	Male (3/8"-24)	2.437"	EL-NCS-TML-62

Please call customer service for correct retrofit reamers for: ABICOR Binzel®, Intertech®, Tregaskiss® and Nasarc®

DRUM LIFTER **Model FDL**

- Spring loaded clamp design holds drum firmly in place
- For fiber or steel drums (chimed only)
- Accepts diameters from 18.5" to 26" (470mm to 660.4mm)
- 1200 lbs (544 kg) capacity

NOTE: Drum rim must be within 1" (25.4mm) of the top of the drum.
Content weight must not exceed the drum manufacturers' packing limit.
Drums must be closed with lids properly sealed. Not for lifting over 10" (254mm) high.

FDL DRUM LIFTER WITH FDL-FA

FORK LIFT ADAPTER **Model FDL-FA**

Safety Features

- Adjustable T-handle keeps adapter from sliding off fork
- Safety style clasp **secures** adapter to drum lifter
- 1200 lbs (544 kg) capacity

DRUM SHARK DRUM LIFTER **Model FDL-C**

- Lifts both chimeless and chimed fiber drums
- Four locking jaws firmly "bite" the drum without causing damage
- Accepts 20" to 26" (508 to 660mm) diameters inc. Accu-Trak® & Marathon Pak®
- 1200 lbs (544 kg) capacity

FDL-C DRUM SHARK WITH FDL-FA

ISO DRUM LIFTER (ADJUSTABLE) **Model FDL-HS**

- Easily attaches to chimeless ISO drums with straps or handles
- Accepts 20" to 26" (508 to 660mm) drum diameters including Accu-Pak® and Marathon Pak®
- 1200 lbs (544 kg) capacity

FDL-HS

21" DRUM LIFTER (NON-ADJUSTABLE) **Model FDL-21-12**

- Our most affordable drum lifter
- Accepts 20" to 21" (508 to 533mm) drum diameters
- 1200 lbs (544 kg) capacity

24" DRUM LIFTER (NON-ADJUSTABLE) **Model FDL-24-12**

- Accepts 23" to 24" (584 to 610mm) drum diameters
- 1200 lbs (544 kg) capacity

FDL-21-12 or FDL-24-12

**Drum lifter load test certifications are available on our website at www.wire-wizard.com*

FDD-MD setup for drums 21" & under

FDD-MD setup for drums between 21"-25"

UNIVERSAL DRUM DOLLY Model FDD-MD

Product Features

- Reversible design for large and small wire packages
- Accommodates round, square & octagon wire drums up to 25" (635mm) in diameter. *Use FDD-26-12 or WWSD for 26" packages.*
- Textite wheels and roller bearings for ease of rollability
- Standard UPS shipping available

Specifications

Deck Ht: 4.25" (108mm) Weight: 24 lbs (10.4kg)
Capacity: 1200 lbs (544 kg)

HEAVY DUTY 26" DRUM DOLLY

HEAVY DUTY 26" (660MM) DRUM DOLLY
Model FDD-26-12

Product Features

- Wide stance with four swivel casters for ease of mobility
- 3" (76.2mm) non-conductive Textite wheels and roller bearings
- Optional brake available (add "B" to part number)
- Fits 26" (660mm) round drum packages
- Suitable for UPS shipping

Specifications

Deck Ht: 4.75" (120.6mm) Weight: 24 lbs (10.4kg)
Capacity: 1200 lbs (544 kg)

FDSC

HEAVY DUTY DRUM STAGING CART Model FDSC

Designed for one person to transport up to 1200 pound (544 kg) wire drums. The hinged handle stores upright for pushing and outward to give added leverage for easy steering. Non-conductive Textite 6" (152.4mm) roller bearing wheels and 3" (76.2mm) front swivel caster provide smooth movement and maximum maneuverability over all surfaces.

Added Benefits

- Transports drums up to 24" (610mm) in diameter
- Optional positive locking brake system (add "B" to part number)
- Suitable for UPS shipping

Specifications

Deck Ht: 1.5" (38.1mm) Height: 40" (1.02m)
Depth: 26" (660.4mm) Width: 30" (762mm)
Capacity: 1200 lbs (544 kg) Weight: 43 lbs (19.5kg)

UNIVERSAL DRUM DOLLY

ITEM	PART NO.
Universal Drum Dolly	FDD-MD

26" (660MM) ROUND DOLLY

ITEM	PART NO.
26" Diameter Dolly	FDD-26-12

HEAVY DUTY DRUM CART

ITEM	PART NO.
Up to 24" Drum Diameter	FDSC

OVERHEAD SAFETY LIFTER

The new Overhead Safety Lifter is designed to safely lift drums and environmental packages of wire overhead by attaching to Wire Wizard® drum and skid dollies. Each lifter includes the lifting device, heavy duty chains and adapter kit for drum and skid dollies. Fork lift adapter also available (see page 39).

OVERHEAD SAFETY LIFTER

Product Features

- Safely lifts drums or environmental packs overhead
- Ideal for overhead welding applications where drums are above the cell
- Compatible with the following Wire Wizard® drum & skid dollies: FDD-MD, FDD-26-12 & WWSD
- 1500 lbs (680 kg) capacity
- **Required for lifting drums over 10" (254mm) off the floor**

ITEM	PART NO.
Overhead Safety Lifter Kit with FDD-MD Dolly (up to 25"/635mm drums)	FDL-OSL-MD-K
Overhead Safety Lifter Kit with FDD-26-12 Dolly (for 26"/660mm drums)	FDL-OSL-26-K
Overhead Safety Lifter Kit with WWSD Skid Dolly	FDL-OSL-SD-K

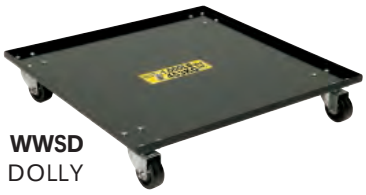
To order the lifter for an existing dolly, remove -K from the appropriate part number above

ENVIRONMENTAL PACK SKID DOLLY **Model WWSD**

Capable of handling up to 1200 pounds, this dolly can be used with all drums/boxes on skids or pallets measuring 27 inches square or smaller. Four solid Textite roller bearing wheels make transporting a drum simple. Can be assembled in a lip up or lip down configuration depending on customer needs. Call customer service for larger pallet sizes.

Specifications

Deck Ht: 4.5" (114.3mm) Capacity: 1200 lbs (544 kg)
Dimensions: 5" (127mm) H x 27.5" (698.5mm) L x 27.5" (698.5mm) W
Weight: 38 lbs (17.24kg)



WWSD
PALLET (SKID) DOLLY

HEAVY DUTY WOOD REEL STAGING CART **Model WRSC**

WRSC
STAGING CART

Product Features

- Specifically designed to transport wood reel and cover
- All steel construction built for rugged industrial use
- Convenient, removable self-storing handle
- 4" (101.6 mm) Textite swivel and rigid roller bearing casters
- Locking swivel wheels standard

Specifications

Deck Ht: 6.75" (171.5mm) Dimensions: 36" (914.4mm) H x 36" (914.4mm) L
Weight: 118 lbs (53.6kg) Capacity: 1400 lbs (635.6kg)

All dollies and carts are shipped unassembled (assembly available)

Gas Saver for Standard Outlet

GFJ-1 (Jet #1)
GFJ-2 (Jet #2)
GFJ-3 (Jet #3)

Gas Saver for Inlet Side of Solenoid

GFJ-1A
GFJ-2A
GFJ-3A

Gas Saver for Outlet Side of Solenoid

GFJ-1B
GFJ-2B
GFJ-3B

Gas Saver for Inlet Side of Solenoid

GFJ-1D
GFJ-2D
GFJ-3D

Gas Saver with BSPP Threads (Fronius® style)

GFJ-F1
GFJ-F2
GFJ-F3

INERT GAS SAVERS

- **Reduces gas consumption**
- Restricts gas surge upon arc starts, screen also prevents blockage
- Can be installed on the inlet or outlet side of the gas solenoid*
- Flow jets can be changed depending on application

GAS SAVERS - INCLUDE SCREENS & JETS 1, 2 or 3
(JETS INDICATED NUMERICALLY IN PART NUMBER)

PART NO.	THREADS	JET LOCATION
GFJ-1, 2 or 3	1/4"-18 Male NPT x 5/8"-18 Female	Female End
GFJ-1A, 2A or 3A	5/8"-18 Male x 5/8"-18 Female	Male End
GFJ-1B, 2B or 3B	5/8"-18 Male x 5/8"-18 Female	Female End
GFJ-1D, 2D or 3D	1/4"-18 Male NPT x 1/4"-18 Female NPT	Male End
GFJ-F1, F2 or F3	1/4"-19 Male BSPP x 1/4"-19 Female BSPP	Female End

GAS SAVER FLOW JETS

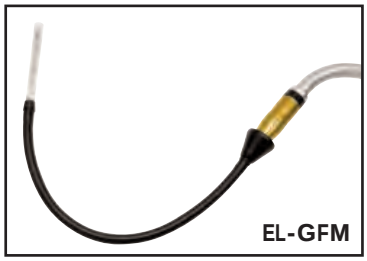
PART NO.	JET	30 PSI	35 PSI	40 PSI	45 PSI	50 PSI	55 PSI
GFJ-1*	1	10 CFH	11 CFH	12 CFH	13 CFH	14 CFH	15 CFH
GFJ-2*	2	29 CFH	33 CFH	36 CFH	39 CFH	42 CFH	45 CFH
GFJ-3*	3	51 CFH	55 CFH	61 CFH	66 CFH	71 CFH	76 CFH

Jet #1 - TIG • Jet #2 - MIG, Light Wire • Jet #3 - MIG, Heavy Wire

MANUAL GAS FLOW GAUGE Model EL-GFM

Measures the actual flow of shielding gas from the MIG/TIG torch, allowing adjustments to be made at the cylinder gauge if necessary. An economical solution for improving overall welding performance.

- Measures gas flow consumption (l/min) at the nozzle
- Flexible hose for easier operator readings



PRECISION PORTABLE GAS FLOW SENSOR Model EL-GMP

This hand-held **digital** sensor allows the operator to verify shielding gas flow rate at the weld tip with outstanding accuracy and response.

- For MIG or TIG torches
- Includes hose and filter assembly that fits over all nozzles
- Pre-calibrated for argon, C25, CO_2 or any mixed inert shield gas
- Battery life (typical 9v): 8-10 hours (includes low battery indicator)

WELD SHIELD GAS FLOW SWITCH Model EL-RVMU

EL-RVMU
GAS FLOW SWITCH

Compact design provides reliable and accurate detection of excessive or insufficient flow rate at the weld point. Calibrated scale offers visual flow rate indication for quick and easy switch adjustment.

- Ideal for protecting against gas flow failure
- Corrosion-resistant stainless steel body mounts in any position
- Sends output to provide visual confirmation of gas flow

FLOW METERING DEVICES

ITEM	PART NO.
Manual, Portable	EL-GFM
Digital, Portable	EL-GMP
Flow Switch*	EL-RVMU

Please specify gas flow range, gas mixture and thread size when ordering

WIRE FEED SPEED SENSOR **Models HHSS & HHSS-12**

This hand-held, battery operated tachometer incorporates the latest single chip micro-circuit technology for high reliability and low maintenance. Capable of measuring and retaining RPH, RPM, FPH, FPM and MPH. Standard accessories include: 3-1/2" (89mm) extension shaft, one funnel and two cone adapters, master wheel (6" / 152mm) and carrying case. Use the new model HHSS-12 for taking readings at the torch end.

Product Features

- Plugs into existing wire system and conduits
- Handles wire diameters from .030 to .125 (0.8 to 3.2 mm)
- Rugged aluminum construction with Delrin wire guide head
- Displays wire speed with automatic floating decimal point
- Large 13 test memory capacity selectable to 5 minutes or more

Note: Manual application only. Does not take continuous readings.

HHSS-12
WIRE FEED SENSOR

HHSS WIRE FEED SENSOR

WIRE DRAW GAUGE **Model WWPT**

The electronic **Wire Wizard™ WWPT** is designed to accurately measure the draw weight of all diameters of weld wire pulling through the conduit. This allows the operator to determine if the conduit needs to be changed by the amount of strain the wire is creating on the feed motor. Hand-held, battery powered (9-volt).

Product Features

- Capable of averaging 10 pulls of wire, storing the largest draw
- Measures in English or metric at the touch of a button
- Easy to read 5-digit LCD display
- Ergonomic plastic housing with standard storage case
- Max pull weight: 12 lb (5.4 kg)

WWPT WIRE DRAW GAUGE

NOZZLE CLEANING TOOLS

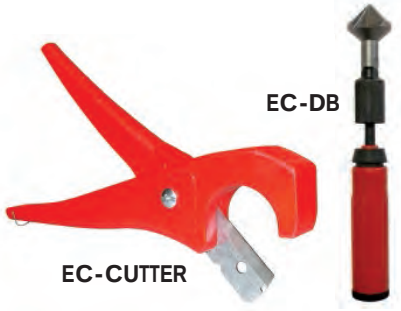
- Highly effective for cleaning spatter
- Helps prevent heat build-up and prolongs MIG nozzle life
- Hand-held design in a choice of five sizes

PART NO.	TIP	NOZZLE
EL-10	1/4" (6.3mm)	3/8" (9.5mm)
EL-20	5/16" (7.9mm)	1/2" (12.7mm)
EL-30	5/16" (7.9mm)	5/8" (15.8mm)
EL-40	3/8" (9.5mm)	5/8" (15.8mm)
EL-50	13/32" (10.3mm)	3/4" (19.05mm)

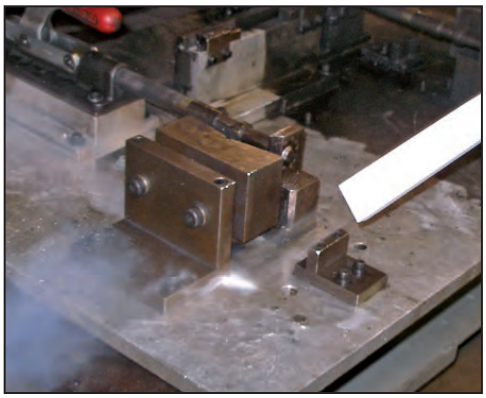
EC BLUE POLYMER CONDUIT CUTTER & COUNTERSINK TOOL **Model EC-CUTTER & EC-DB**

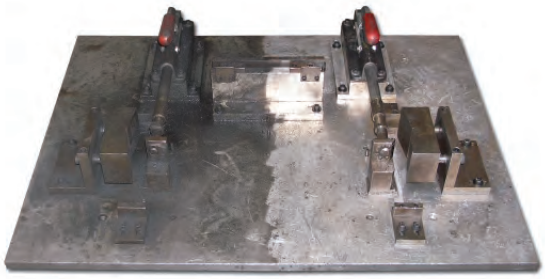
The ratcheting style, heavy duty **EC-CUTTER** is designed to trim all sizes of ELCo blue conduit with ease. Heat treated steel cutting blade. 8.5" (216mm) long.

Use the **EC-DB** ratcheting Countersink Tool for countersinking the ends of polymer conduit (required for proper installation).



Made in U.S.A





Welding Fixture - Before & After

NU-ICE AGE DRY ICE CLEANING EQUIPMENT

ELCo Enterprises also offers the Nu-Ice Age line of dry ice blasting equipment, excellent for weld cell cleaning and other plant maintenance applications. Dry ice blasting is a process where dry ice (solid CO2) pellets are accelerated in a pressurized air stream to clean or prepare a surface. Through sublimation, where CO2 instantly changes from a solid to a gas, the pellets create mini-explosions upon impact to effectively clean nearly any surface. Dry ice blasting is the ideal cleaning method for weld cells and other areas of the plant, including tooling, exhaust and ventilation systems. The key advantages of dry ice blasting are that it leaves behind no secondary waste (CO2 evaporates) and since it's non-flammable and nonconductive, most equipment and machinery can be cleaned in place without any disassembly or cooling, reducing downtime for maintenance.

Dry Ice Blasting Benefits

- Environmentally friendly - no chemicals or harmful vapors!
- Non-abrasive, nonflammable and nonconductive
- Does not generate any secondary waste to clean up
- Most equipment can be cleaned in place without any disassembly or cooling, reducing downtime
- Removes residue, spatter, slag, grease, oils and more
- Dry ice is much more affordable than other heavy duty cleaning solutions

Dry Ice Blasting Machine Features

- Easy to use with minimal training required
- Compact size and wheels make this machine easy to transport and maneuver while cleaning
- Adjustable blast pressure and pellet feed rate
- Tough stainless steel enclosed body built for heavy duty industrial use
- Static ground cable included to reduce the risk of static electric shock in certain blasting applications
- Each Dry Ice Blasting Machine includes a 20 ft (6 m) hose, gun, extension and a short round & fan nozzle (see below). The gun also features a switch that changes the spray mode from dry ice+air to air only.

For more information and cleaning demonstration videos, visit www.nuiceage.com

Blasting Gun & Nozzles

Many additional Nozzles/Extensions available

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- **NEXT DAY AIR**
- **2ND DAY AIR**
- **3 DAY SELECT**

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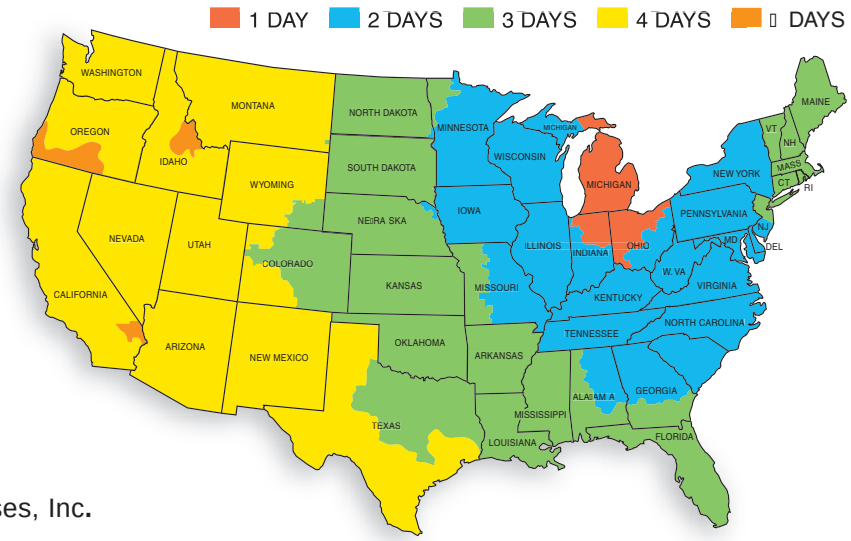

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